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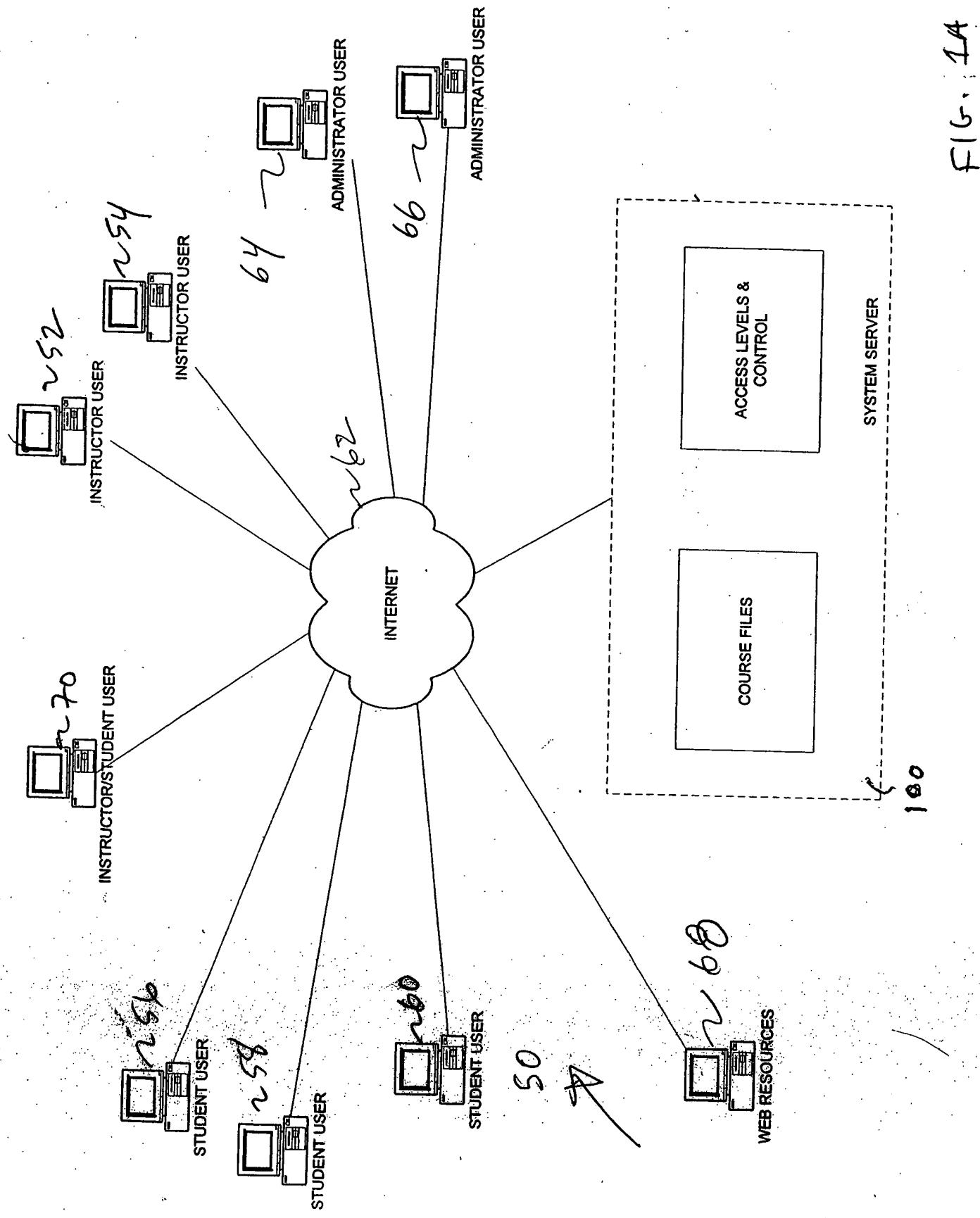
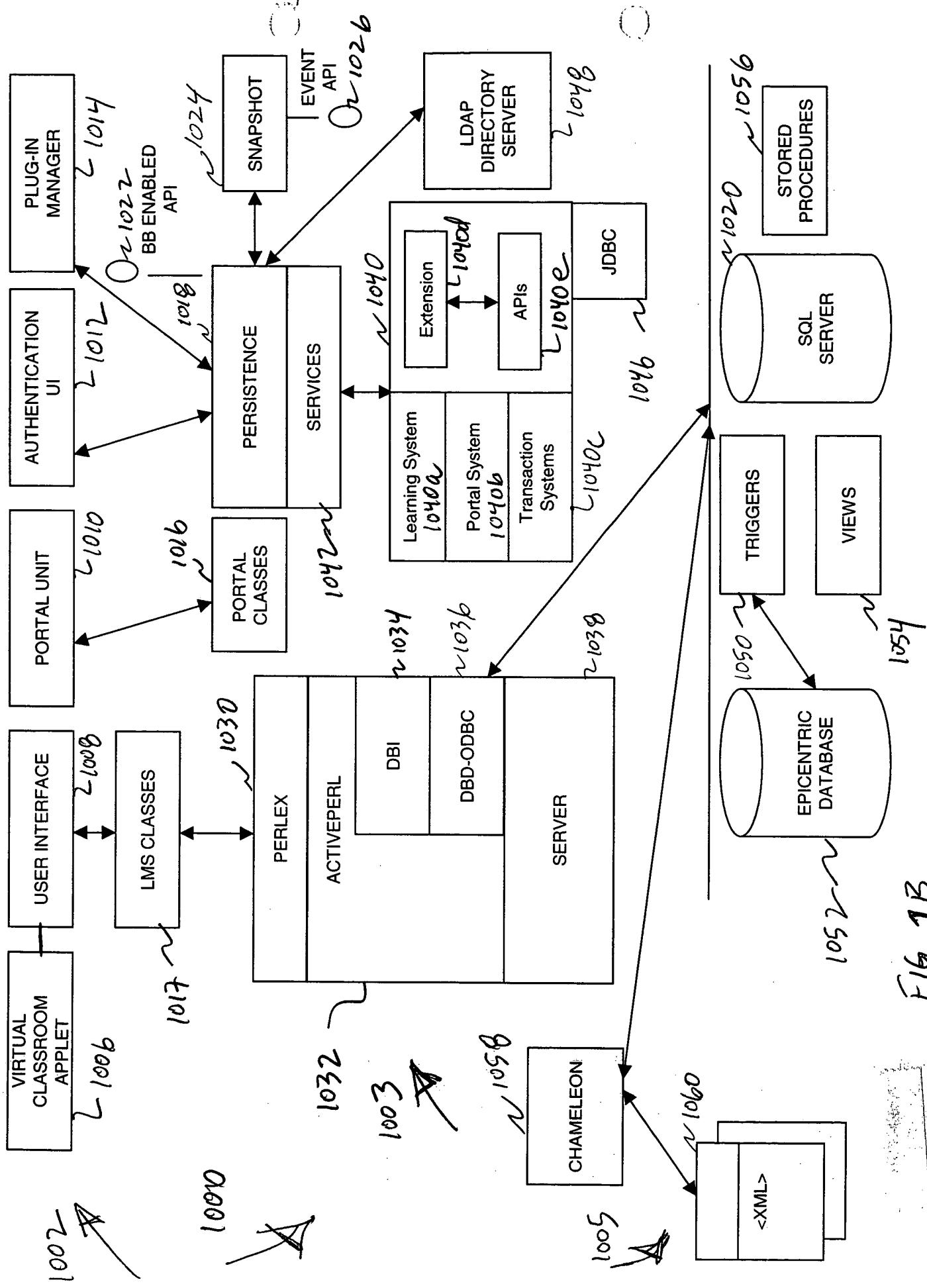


Fig. 14



F16. 1B

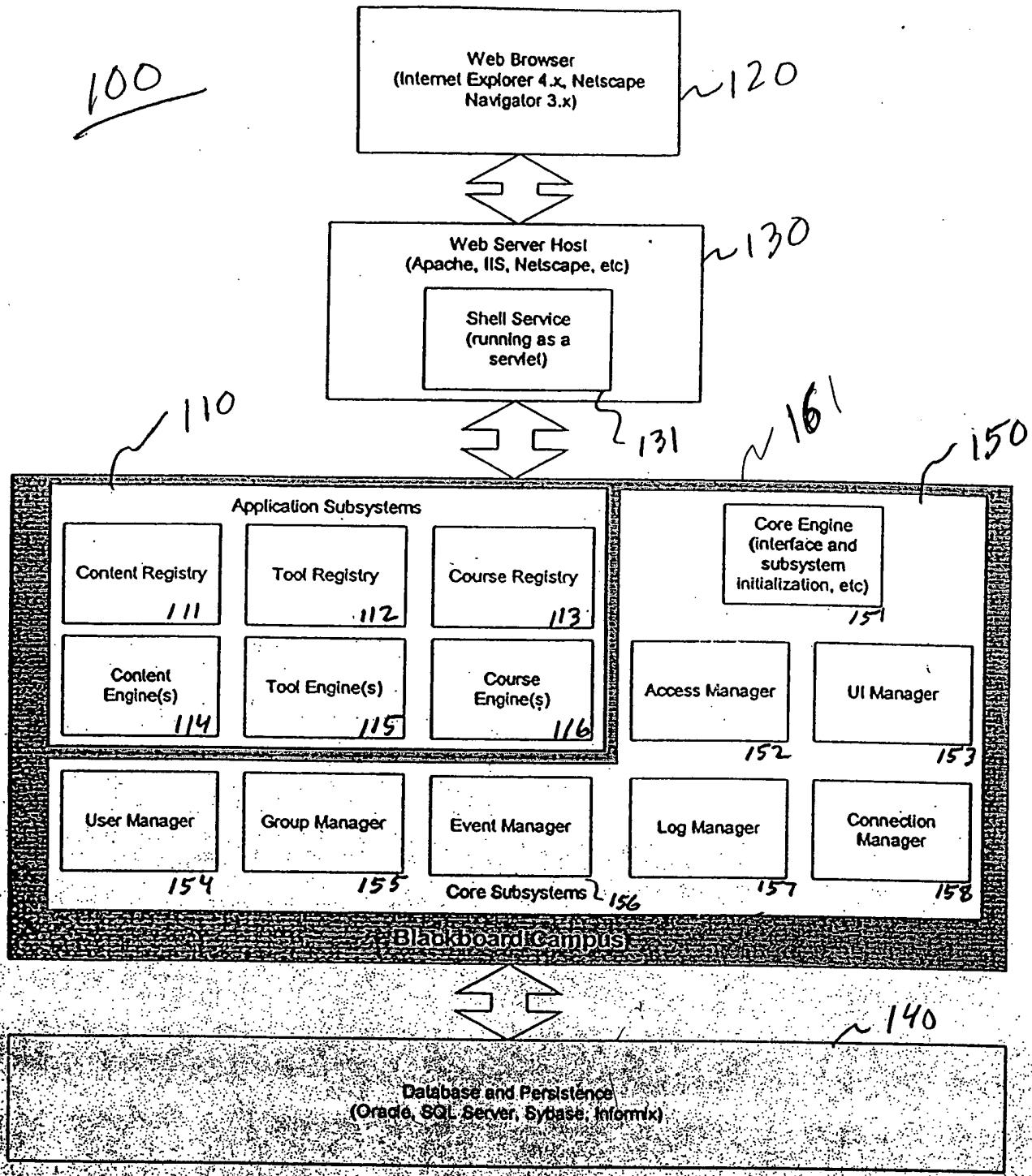


FIGURE 1C

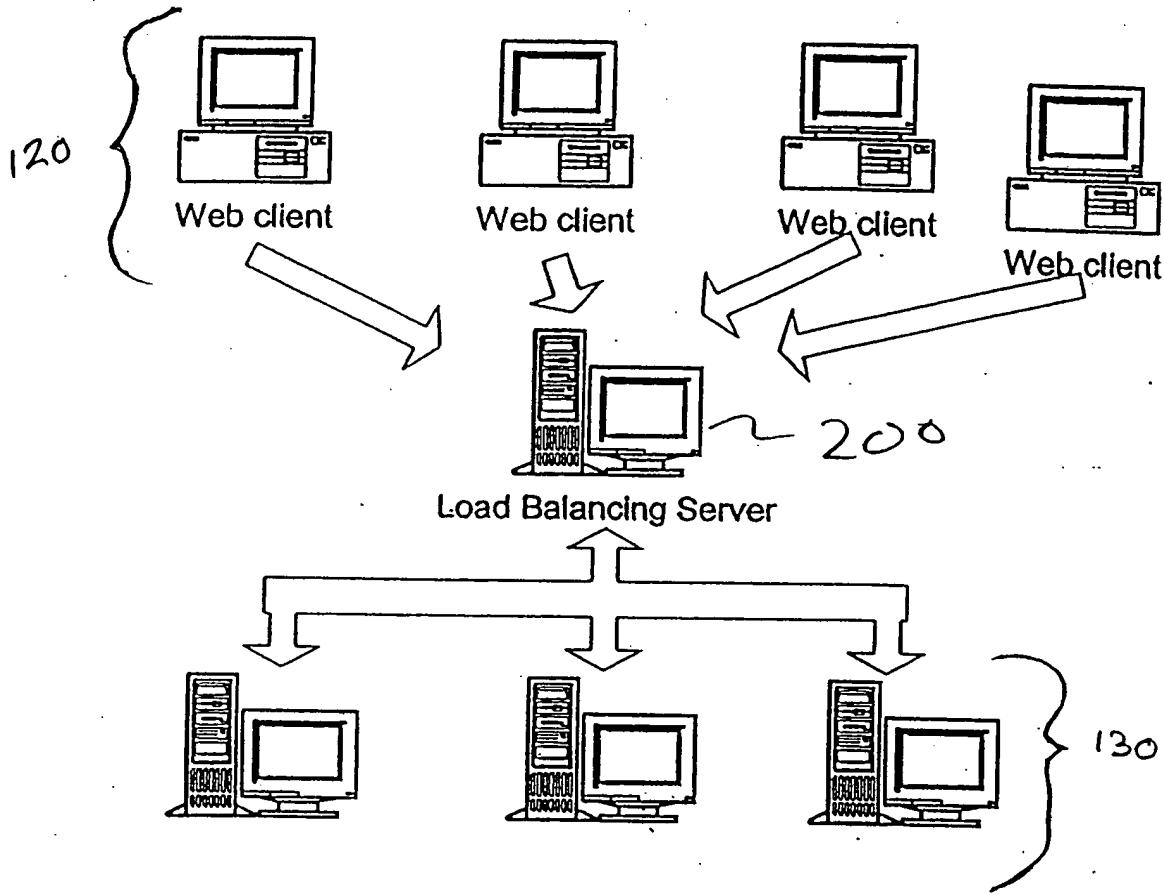


Figure 2 —Machine Scalability Using Load Balancing

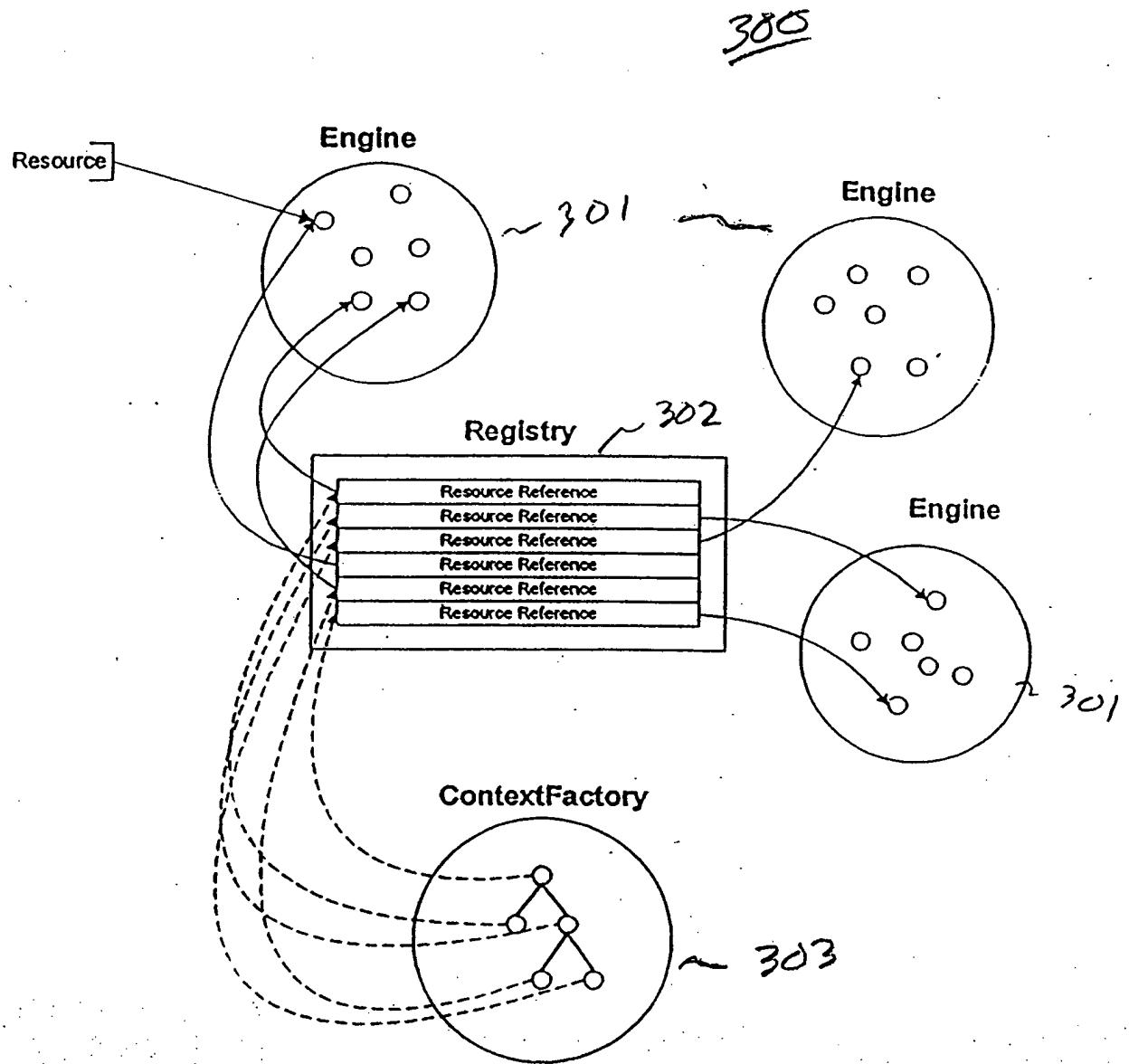


Figure 3 -- Engine/Registry Model

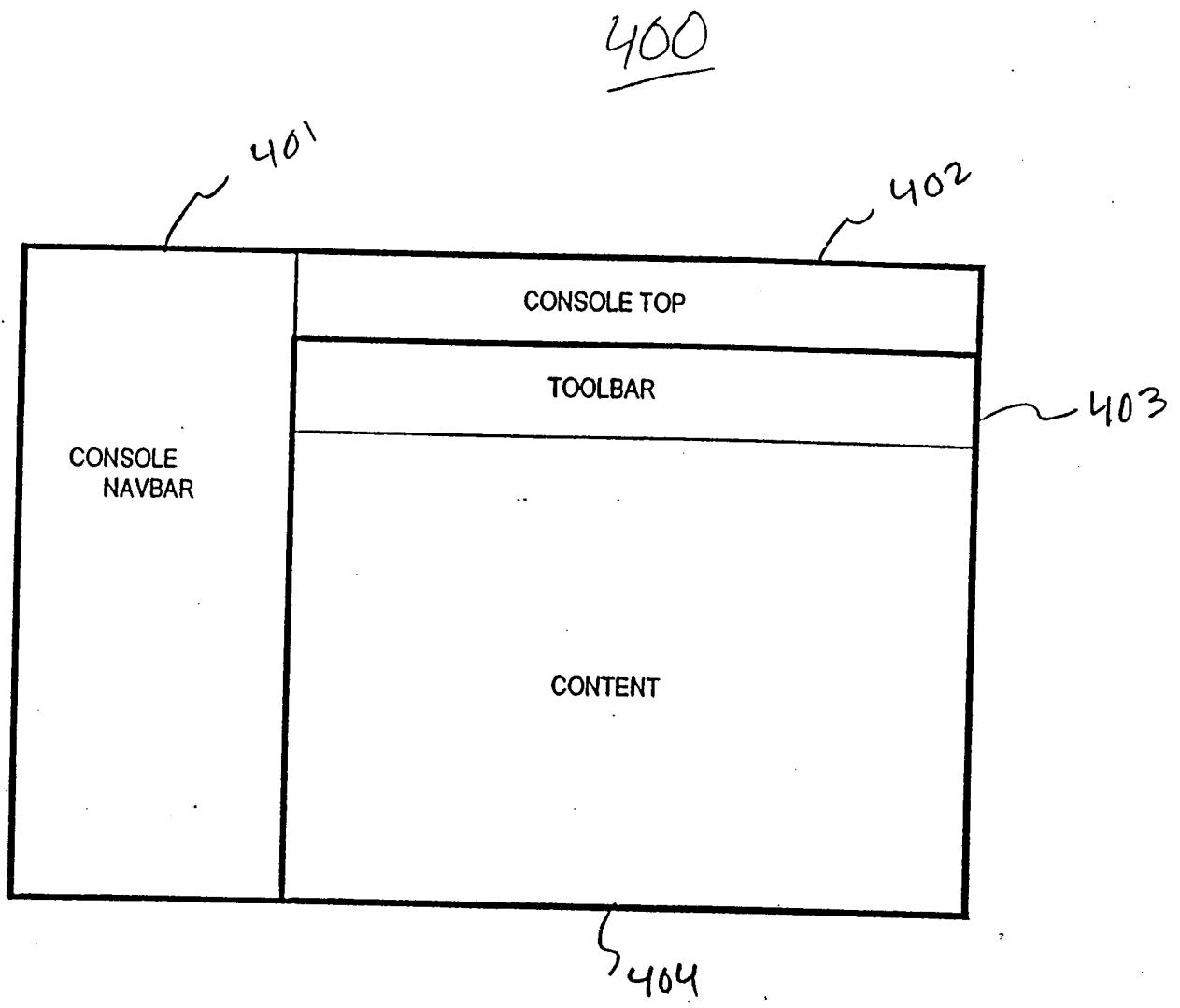


FIGURE 4

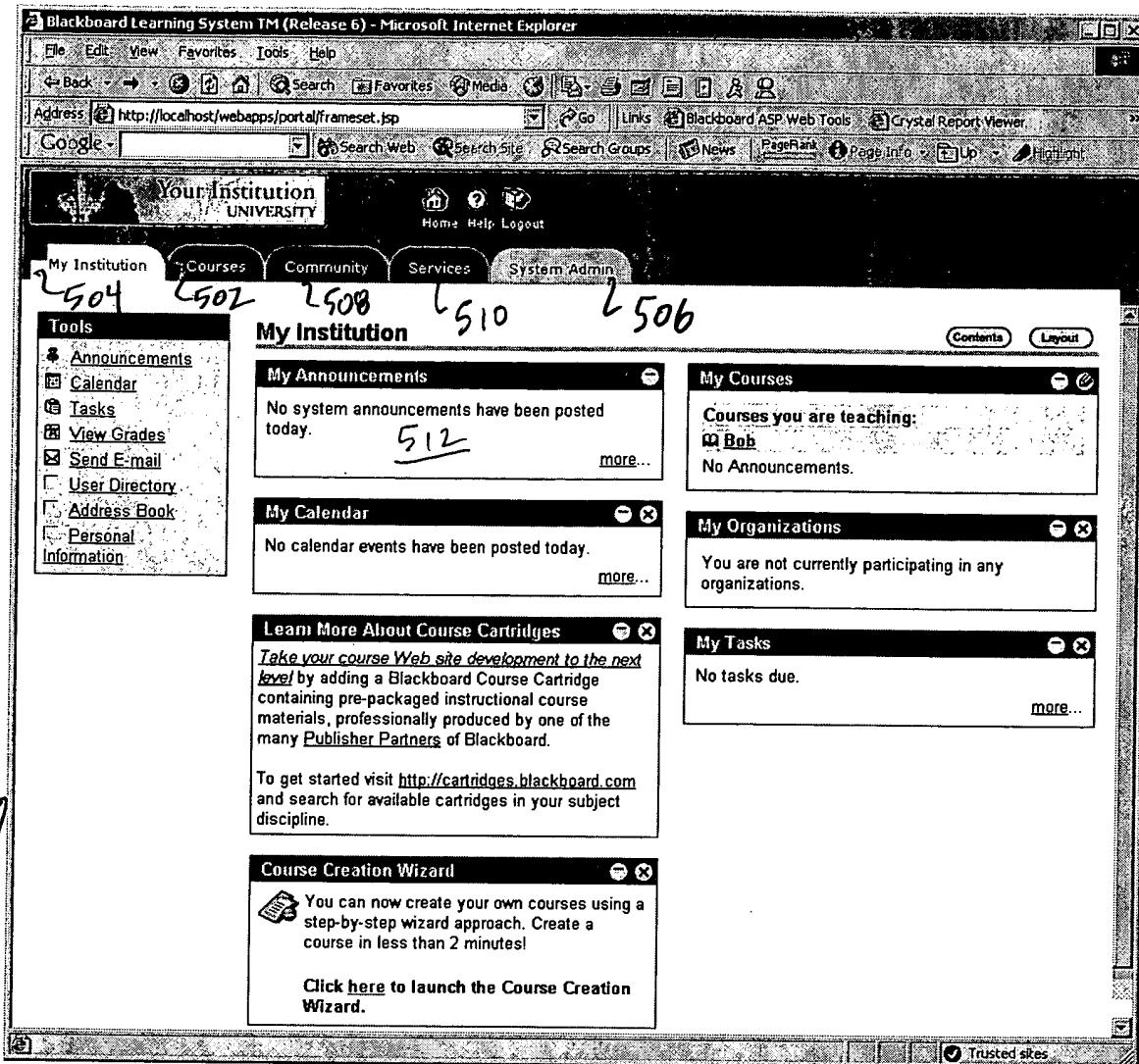


FIG.5

2 CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Address http://georgetown1/Blackout_v30/bb_admin/items/frame_enterprise_courses.htm

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources

COURSE SEARCH

Search for a course:

[advanced search](#)

OFF-CAMPUS LEARNING

Kaplan
Help prepare for final exams.

TutorNet
Need a tutor, use the virtual chat 24 hour TutorNet service.

eHow
Find out how to do just about anything.

Blackboard.com
Find courses you can take online.

SEARCH THE WEB

Search the Web:

[advanced search](#)

Course List: 602

Courses you are teaching: 604

Introduction to Music

Course ID: MUSIC101
Department: Art & Music
Instructor(s): Dr. Lou Pugliese
Online Material: Yes

American History 606

Course ID: AHIST101
Department: Social Science
Instructor(s): Dr. Chasen
Online Material: Yes

Courses in which you are enrolled: 608

Accounting 101

Course ID: ACCT101
Section: 2
Department: Business
Instructor(s): Alan Stewart
Online Material: No

Space and Beyond 610

Course ID: SPACE301
Section: 1
Department: Music
Instructor(s): Laurie Wagnon
Online Material: Yes

Algebra 2

Course ID: ALGEBRA2
Section: 2

Course Catalog: 612

- Agricultural Sciences & Natural Resources
- Architecture
- Arts & Sciences
- Business Administration
- Division of Continuing Studies
- Engineering & Technology
- Fine & Performing Arts
- Graduate Studies
- Great Plains Veterinary Educational Center
- Human Resources & Family Sciences
- Journalism & Mass Communications
- Law
- Military & Naval Sciences
- Nebraska College of Technical Agriculture - Curtis
- Public Affairs & Community Service
- Special Projects
- Teachers College

[Browse Course Catalog](#) 614

600

FIG. 6

CoursesInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

http://georgetown1/Blackout_v30/bb_admin/themes/frame_enterprise_courses.html

Your Institution UNIVERSITY

My Institution Courses Community Services

COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Announcements

Course Information

Staff Information

Course Documents

Assignments

Communication

External Links

Student Tools

Resources

Course Map

Control Panel

Introduction to Music

MUSIC
101

Musical Theory Basics
Music Notation
Key Signatures
Time Signatures

Announcements

Posted in the Last Two Weeks

Subject: Course Packets

The library has printed an additional 25 course packets. If you have up, please drop by the library and purchase one. They are available for \$10.00 each.

Subject: Assignment #3 Office Hours

Assignment #3 Office Hours have been changed from 2:00-3:00 to 3:45-4:45.

Today Last 2 Weeks Last Month All

Course Contents - Microsoft Internet Explorer

Course Contents

(Click on any box to expand)

- Course Information
- Course Information
- Staff Information
- Staff Information
- Course Documents
- Course Documents
- Unit 1: Introduction to Music
- Unit 2: Musical Theory
- Unit 3: Key and Time Signatures
- Unit 4: Basic Rhythms
- Unit 5: Melodic Patterns
- Unit 6: Harmonic Patterns
- Unit 7: Chords
- Unit 8: Scales
- Unit 9: Modes
- Unit 10: Harmony
- Unit 11: Counterpoint
- Unit 12: Improvisation
- Unit 13: Composition
- Unit 14: Performance
- Unit 15: History of Music
- Unit 16: Analysis
- Unit 17: Performance Practice
- Unit 18: Research Methods
- Unit 19: Ethnomusicology
- Unit 20: Music Theory
- Unit 21: Music Education
- Unit 22: Music Therapy
- Unit 23: Music Technology
- Unit 24: Music Business
- Unit 25: Music History
- Unit 26: Music Theory
- Unit 27: Music Education
- Unit 28: Music Therapy
- Unit 29: Music Technology
- Unit 30: Music Business
- Unit 31: Music History
- Unit 32: Music Theory
- Unit 33: Music Education
- Unit 34: Music Therapy
- Unit 35: Music Technology
- Unit 36: Music Business
- Unit 37: Music History
- Unit 38: Music Theory
- Unit 39: Music Education
- Unit 40: Music Therapy
- Unit 41: Music Technology
- Unit 42: Music Business
- Unit 43: Music History
- Unit 44: Music Theory
- Unit 45: Music Education
- Unit 46: Music Therapy
- Unit 47: Music Technology
- Unit 48: Music Business
- Unit 49: Music History
- Unit 50: Music Theory
- Unit 51: Music Education
- Unit 52: Music Therapy
- Unit 53: Music Technology
- Unit 54: Music Business
- Unit 55: Music History
- Unit 56: Music Theory
- Unit 57: Music Education
- Unit 58: Music Therapy
- Unit 59: Music Technology
- Unit 60: Music Business
- Unit 61: Music History
- Unit 62: Music Theory
- Unit 63: Music Education
- Unit 64: Music Therapy
- Unit 65: Music Technology
- Unit 66: Music Business
- Unit 67: Music History
- Unit 68: Music Theory
- Unit 69: Music Education
- Unit 70: Music Therapy
- Unit 71: Music Technology
- Unit 72: Music Business
- Unit 73: Music History
- Unit 74: Music Theory
- Unit 75: Music Education
- Unit 76: Music Therapy
- Unit 77: Music Technology
- Unit 78: Music Business
- Unit 79: Music History
- Unit 80: Music Theory
- Unit 81: Music Education
- Unit 82: Music Therapy
- Unit 83: Music Technology
- Unit 84: Music Business
- Unit 85: Music History
- Unit 86: Music Theory
- Unit 87: Music Education
- Unit 88: Music Therapy
- Unit 89: Music Technology
- Unit 90: Music Business
- Unit 91: Music History
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- Unit 93: Music Education
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- Unit 101: Music Technology
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- Unit 105: Music Education
- Unit 106: Music Therapy
- Unit 107: Music Technology
- Unit 108: Music Business
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- Unit 111: Music Education
- Unit 112: Music Therapy
- Unit 113: Music Technology
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- Unit 115: Music History
- Unit 116: Music Theory
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- Unit 134: Music Theory
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- Unit 138: Music Business
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- Unit 140: Music Theory
- Unit 141: Music Education
- Unit 142: Music Therapy
- Unit 143: Music Technology
- Unit 144: Music Business
- Unit 145: Music History
- Unit 146: Music Theory
- Unit 147: Music Education
- Unit 148: Music Therapy
- Unit 149: Music Technology
- Unit 150: Music Business
- Unit 151: Music History
- Unit 152: Music Theory
- Unit 153: Music Education
- Unit 154: Music Therapy
- Unit 155: Music Technology
- Unit 156: Music Business
- Unit 157: Music History
- Unit 158: Music Theory
- Unit 159: Music Education
- Unit 160: Music Therapy
- Unit 161: Music Technology
- Unit 162: Music Business
- Unit 163: Music History
- Unit 164: Music Theory
- Unit 165: Music Education
- Unit 166: Music Therapy
- Unit 167: Music Technology
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- Unit 170: Music Theory
- Unit 171: Music Education
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- Unit 173: Music Technology
- Unit 174: Music Business
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- Unit 194: Music Theory
- Unit 195: Music Education
- Unit 196: Music Therapy
- Unit 197: Music Technology
- Unit 198: Music Business
- Unit 199: Music History
- Unit 200: Music Theory
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- Unit 206: Music Theory
- Unit 207: Music Education
- Unit 208: Music Therapy
- Unit 209: Music Technology
- Unit 210: Music Business
- Unit 211: Music History
- Unit 212: Music Theory
- Unit 213: Music Education
- Unit 214: Music Therapy
- Unit 215: Music Technology
- Unit 216: Music Business
- Unit 217: Music History
- Unit 218: Music Theory
- Unit 219: Music Education
- Unit 220: Music Therapy
- Unit 221: Music Technology
- Unit 222: Music Business
- Unit 223: Music History
- Unit 224: Music Theory
- Unit 225: Music Education
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- Unit 230: Music Theory
- Unit 231: Music Education
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- Unit 244: Music Therapy
- Unit 245: Music Technology
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- Unit 248: Music Theory
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- Unit 250: Music Therapy
- Unit 251: Music Technology
- Unit 252: Music Business
- Unit 253: Music History
- Unit 254: Music Theory
- Unit 255: Music Education
- Unit 256: Music Therapy
- Unit 257: Music Technology
- Unit 258: Music Business
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- Unit 260: Music Theory
- Unit 261: Music Education
- Unit 262: Music Therapy
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- Unit 265: Music History
- Unit 266: Music Theory
- Unit 267: Music Education
- Unit 268: Music Therapy
- Unit 269: Music Technology
- Unit 270: Music Business
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- Unit 272: Music Theory
- Unit 273: Music Education
- Unit 274: Music Therapy
- Unit 275: Music Technology
- Unit 276: Music Business
- Unit 277: Music History
- Unit 278: Music Theory
- Unit 279: Music Education
- Unit 280: Music Therapy
- Unit 281: Music Technology
- Unit 282: Music Business
- Unit 283: Music History
- Unit 284: Music Theory
- Unit 285: Music Education
- Unit 286: Music Therapy
- Unit 287: Music Technology
- Unit 288: Music Business
- Unit 289: Music History
- Unit 290: Music Theory
- Unit 291: Music Education
- Unit 292: Music Therapy
- Unit 293: Music Technology
- Unit 294: Music Business
- Unit 295: Music History
- Unit 296: Music Theory
- Unit 297: Music Education
- Unit 298: Music Therapy
- Unit 299: Music Technology
- Unit 300: Music Business
- Unit 301: Music History

Course Contents - Microsoft Internet Explorer

Course Contents

(click on any tool to expand)

- ⑤ **Course Information**
 - ② **Course Information**
 - ② **Unit Information**
 - ② **Unit 1: Introduction**
 - ② **Unit 2: Microsoft Word**
- ⑤ **Course Documents**
 - ② **Unit 1: Introduction**
 - ② **Unit 2: Microsoft Word**
 - ② **Unit 3: Microsoft Excel**
 - ② **Unit 4: Microsoft Powerpoint**
 - ② **Unit 5: Microsoft Word**
 - ② **Unit 6: Microsoft Excel**
 - ② **Unit 7: Microsoft Powerpoint**
 - ② **Unit 8: Microsoft Word**
 - ② **Unit 9: Microsoft Excel**
 - ② **Unit 10: Microsoft Powerpoint**
- ⑤ **Course Links**
 - ② **Edmodo: Student & Teacher Resources**
 - ② **Edmodo: Teacher & Student Resources**
 - ② **Edmodo: Teacher Resources**
 - ② **Edmodo: Student Resources**
 - ② **Edmodo: Teacher Resources**
- ④ **Student Tools**

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

http://blockout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

John Wayne

Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
Faculty Biographies
Search Logouts

Music 101

Music 101: Introduction to Music

Music Theory Topics
- Music Notation
- Key Signatures
- Time Signatures

Announcements

Posted In the Last Two Weeks

Subject: Class location change Posted by Prof. Stacey on May 19, 2000
We've moved to room 101

Subject: Greeting Posted by Prof. Stacey on May 16, 2000
Welcome MCCC

Subject: A new quiz has been posted Posted by Prof. Stacey on May 10, 2000
To begin taking the quiz titled NYCTA click here.
Please answer these questions carefully.

Today | Yesterday | Next Week | Previous Week | Today's News | Course Index | Prof. doc. Web | Course Contents

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

http://blockout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

John Wayne

Announcements
Course Information
Staff Information
Course Documents
Assignments
Communication
External Links
Student Tools
Resources
Course Map
Faculty Biographies
Search Logouts

Please check your announcements on a daily basis.
Thanks, Stacey

Welcome to your new course
You can navigate your course by using the map below.

Course Contents

(click on any book to expand)

- Course Information
- Staff Information
- Course Documents
- Assignments
- Communication
- External Links
- Student Tools

Subject: Class location change Posted by Prof. Stacey on May 19, 2000
We've moved to room 101

WELCOME TO MUSIC 101!

Use the buttons provided on the left side of your screen to navigate the CourseSite. Begin by clicking the COURSE INFORMATION button to view important information before beginning the course.

Today | Last 2 Weeks | Last Month | All

Today | Yesterday | Next Week | Previous Week | Today's News | Course Index | Prof. doc. Web | Course Contents

FIG. 8

900

Course Contents - Microsoft Internet Explorer provided by Greenberg Traurig

Course Contents

(click on any book to expand)

- Course Information
 - Courses
 - Welcome
 - Course Reader Content
 - The Primary Course Objectives
 - Course Materials
 - Course Information
 - Courses
 - Course Goals
 - Course Information
 - WF/Folder
 - Test Information
- Staff Information
 - Ghast, Peter
 - Giffin, Catherine
 - Silberman, John
- Course Documents
 - Assignments
 - Physics in Music - Multimedia Presentations
 - Mathematics in Music
 - Harmonic Progression
 - Surveys
 - Quizzes
 - Communication
 - Send Email
 - Discussion Board
 - Student Roster
 - Virtual Chat
 - Student Homepages
 - Group Homepages
 - External Links
 - Student Tools

902

File Edit View Favorites Insert Tools Help

Back Forward Stop Home

Address: http://www.greenbergtraurig.com/courses/

F16.9

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Insert Favorites Tools Help

Back Forward Stop Home Search Help

Http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

My Institution Courses Community Services

John Wayne

Music101: Introduction to Music

Assignments

1072

Physics In Music - Multimedia Presentation
Link to File
1072
Please view the following video prior to class on Wednesday, February 16. Our class discussion on that day will focus on the intertwining of physics and music. Don't worry though, you don't need to have a physics degree to understand.

1073
Mathematics In Music
Link to File
1073
Please read the attached document and be prepared to discuss it in Friday February 18th's class.

1074
Surveys

Harmonic Progression
Link to File
1074
Please review the attached document for class on Wednesday, February 23.

Quizzes

Click to Options

Start PANWU Global Mail Exchange Teacher Resources Courses Faculty Documents Document Across R...

Faculty Documents Faculty Courses Faculty Exchange Faculty Teacher Resources Faculty Global Mail Faculty Start PANWU Faculty Across R...

Fig. 10

1/00

FIG-11

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Stop Refresh Home Search Favorites History Back Forward Stop Refresh Home

Address (E) http://georgetown1/Blackout_v30/bb_admin/frames/frame_enterprise_courses.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources

COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

[Top]

Current Location: Course Documents

Announcements

Course Documents

Syllabus

Link to File

Session 1

The major scale, has no sharps or flats associated with any of the notes in the scale. Here is the C major scale in the treble staff.

(to display options for the animation below, move your mouse pointer atop the image and click the right mouse button)



Session 1: Lessons

Session 1: An Atlas of Consonance

Link to File

Please print this document and keep it available for fast review.

Session 2: Music Notation

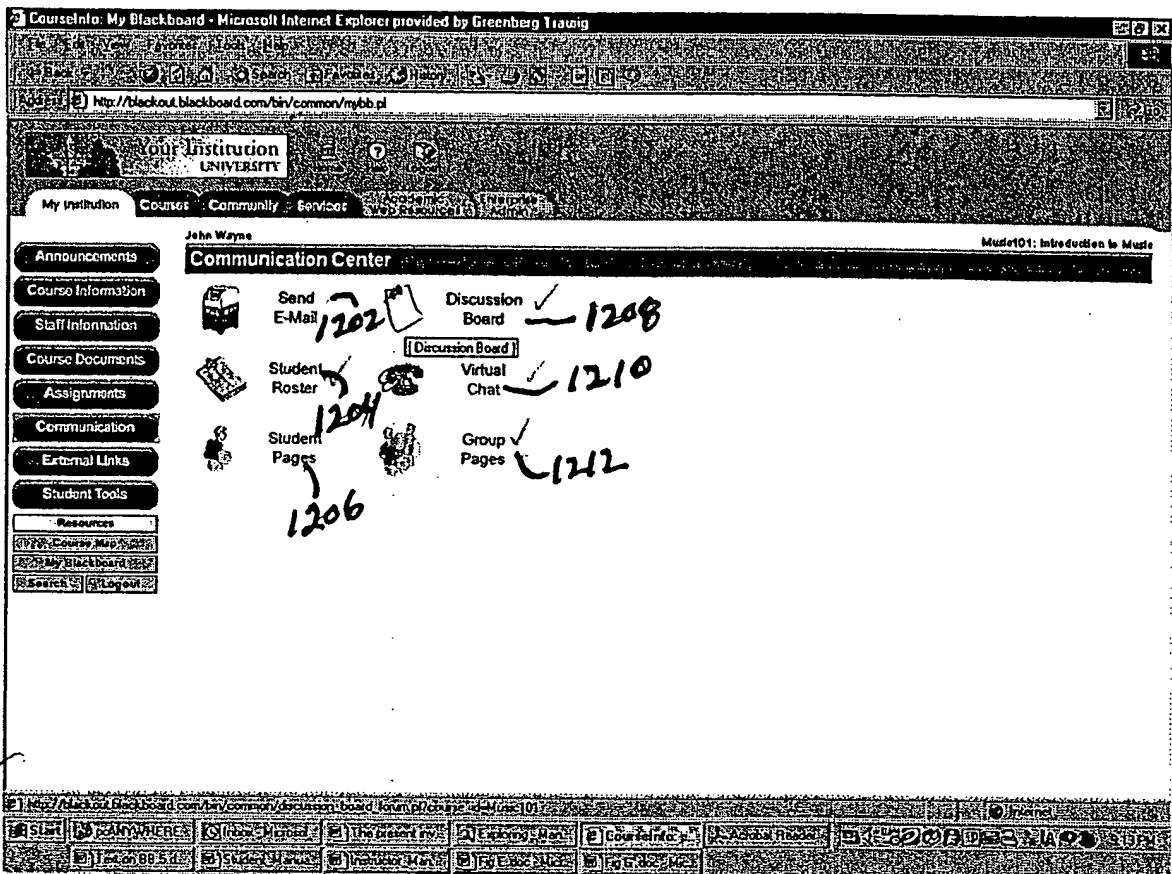


FIG.12

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_courses.html

Your Institution
UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC

Blackboard Administrator MUSIC101: Introduction to Music

Communication Center

Discussion Board - Thread View

VIEW UNREAD MESSAGES EXPAND ALL COLLAPSE ALL SEARCH

OPTIONS

This is a top level thread Cane, Daniel 25-Feb-2000

This is a reply to your top level thread Chi, Timothy 26-Feb-2000

This is a top level thread Cane, Daniel 28-Feb-2000

Hello World! Klimenko, Anatoly 27-Feb-2000

Re: Hello World! Klimenko, Anatoly 28-Feb-2000

[Click Here for Archives]

Sort By: Default

1300

FIG. 13

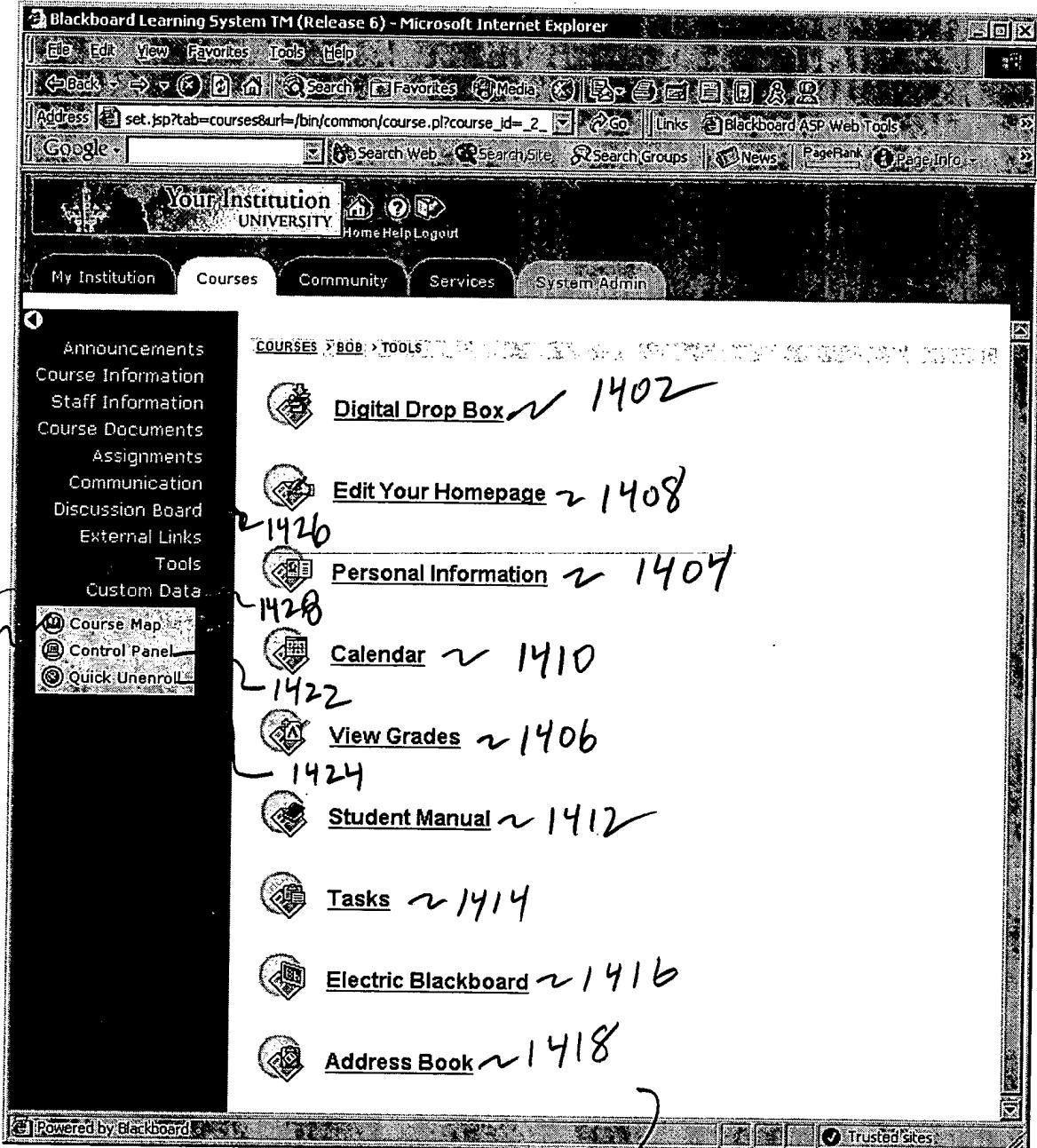


Figure 14.

John Wayne

Music101: Introduction to Music

Student Tools**Student DropBox**

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

**Current Files in your DropBox**

Note: If you want to save a file, right click on the Link Name and choose Save Link As

<u>File Name</u>	<u>Link Name</u>	<u>File Size</u>	<u>Status</u>
none	none	none	none

[Remove Files]

**Add File to DropBox**

Click the Browse button to select the file to attach from your computer.
Be sure to specify a linkname for your file.

File to Upload:

Name of Link to File:
(Example: Homework One, Assignment One)

Browse...

◀ Back

1500

FIG 15

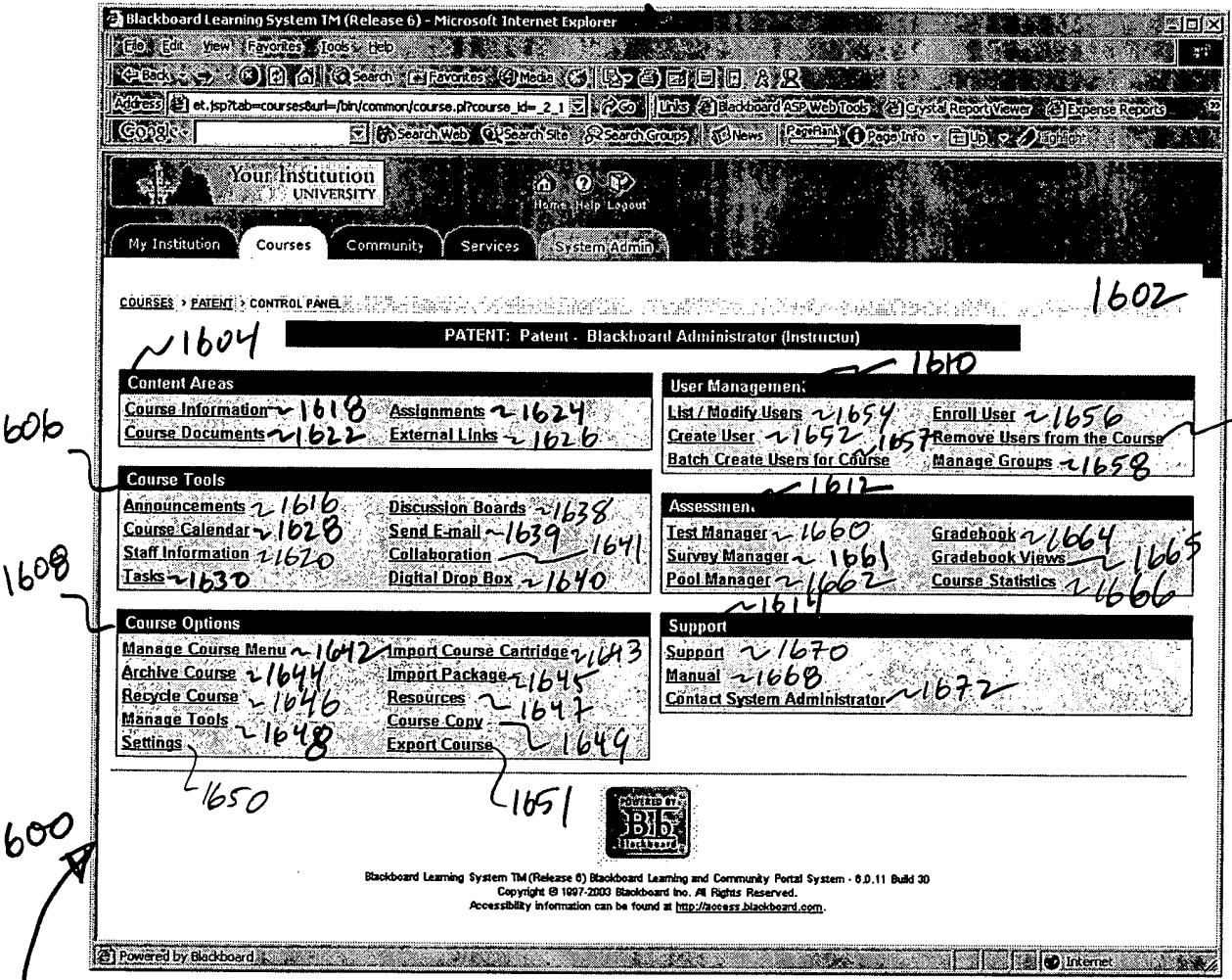


FIG. 17

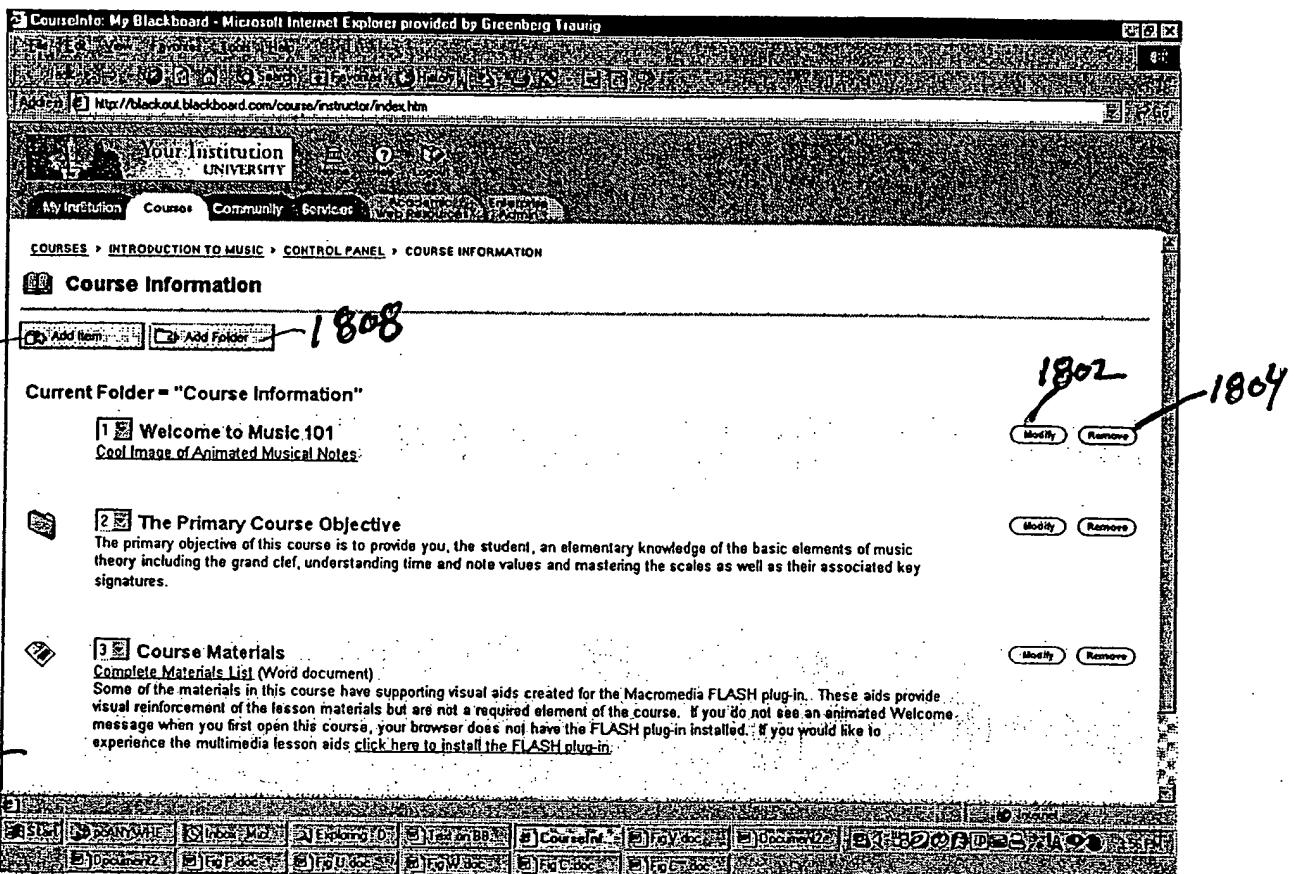
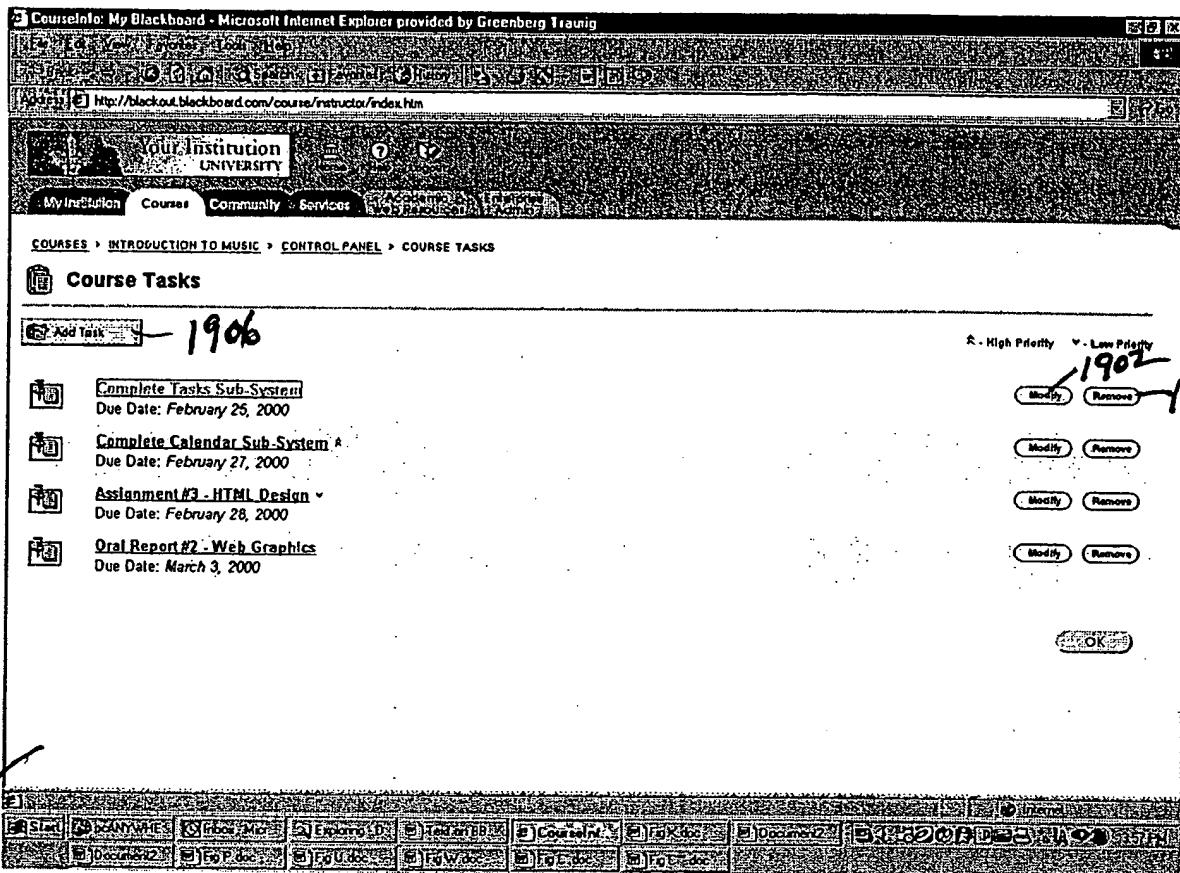


FIG. 18



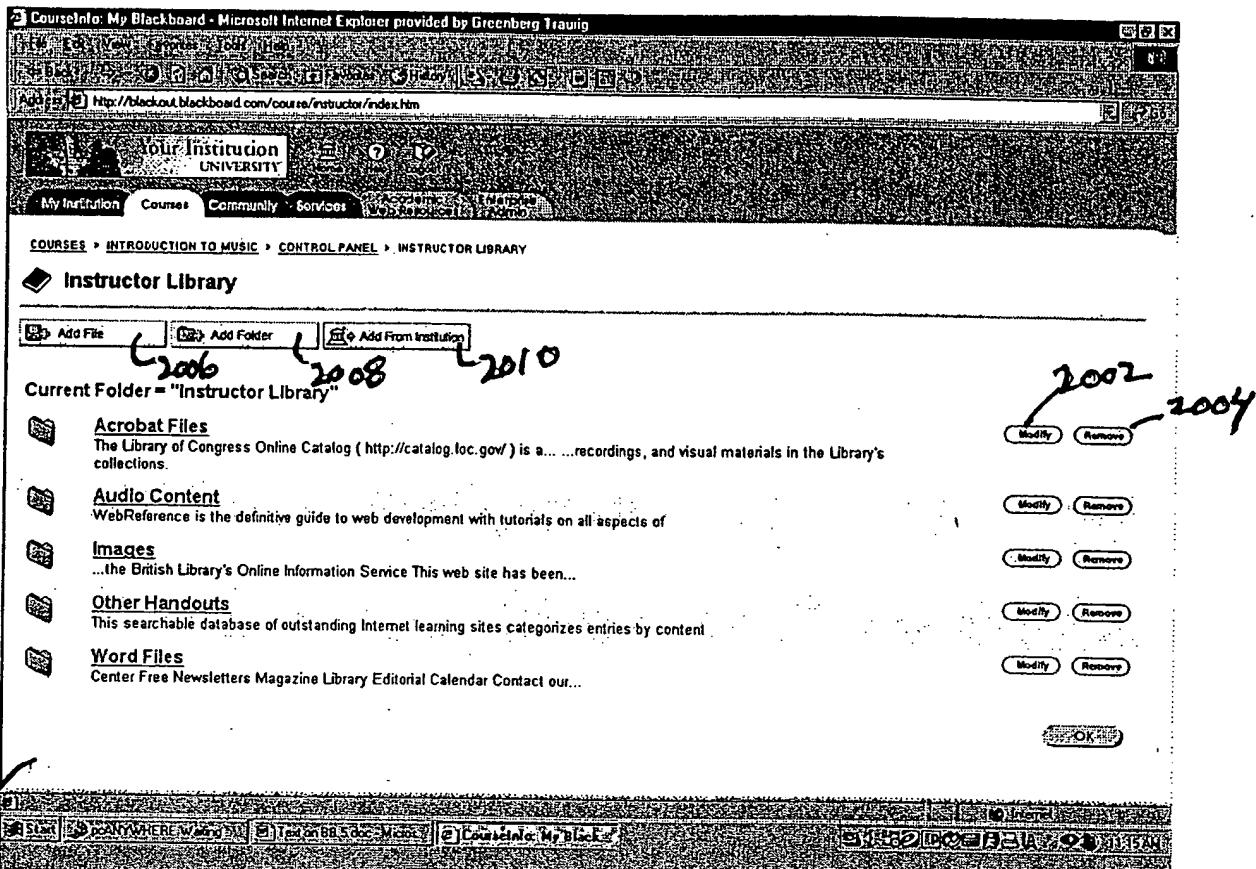


FIG. 20

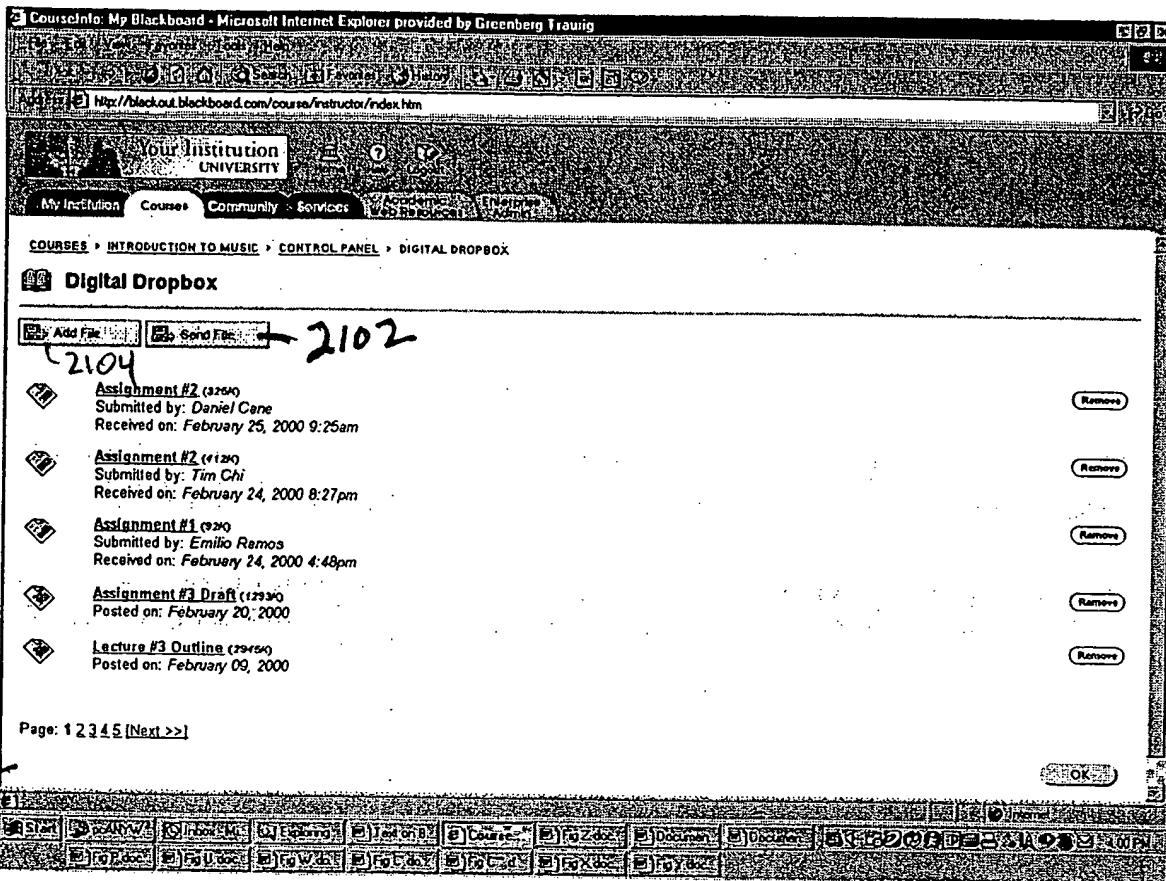


Fig. 21

Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address et.jsp?tab=courses&url=/bin/common/course.pl?course_id=2_1 Go

Links Blackboard ASP WebTools Crystal Report Viewer Expense Reports

Google Search Web Search Site Search Groups News Page Rank Page Info Up Right Links

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES > PATENT > CONTROL PANEL > GRADEBOOK

View Spreadsheet

2202 2204 2206 2208 2210 2212
~ ~ ~ ~ ~ ~
2214 2216 2218

Add Item Manage Items Gradebook Settings Weight Grades Download Grades Upload Grades

Sort Items by Position GO Filter Items by Category All GO Filter Users by Last Name All GO

Student Name (Last, First)	Mid-Term Assignment	Total	Weighted Total
Alcom, Bob	Pts Possible: 0 Weight: 0%	100	100 0%

1 Students
Displaying records 1-1

<< Previous 1 Next >>

In Progress
No Information
Needs Grading
Grading Error
Completed

Denotes a non-visible item

OK

Powered by Blackboard Internet

Student Name (Last, First)	Mid-Term Assignment	Total	Weighted Total
Alcom, Bob	Pts Possible: 0 Weight: 0%	100	100 0%

Figure 22.

Course Statistics

Statistics Generated on Thursday, February 24, 2000 11:26:28 AM

Note: You may have to reload/refresh this page for the images to be correct.

2300

Total Number of Accesses per Area - 2302

Number of Accesses over Time - 2304

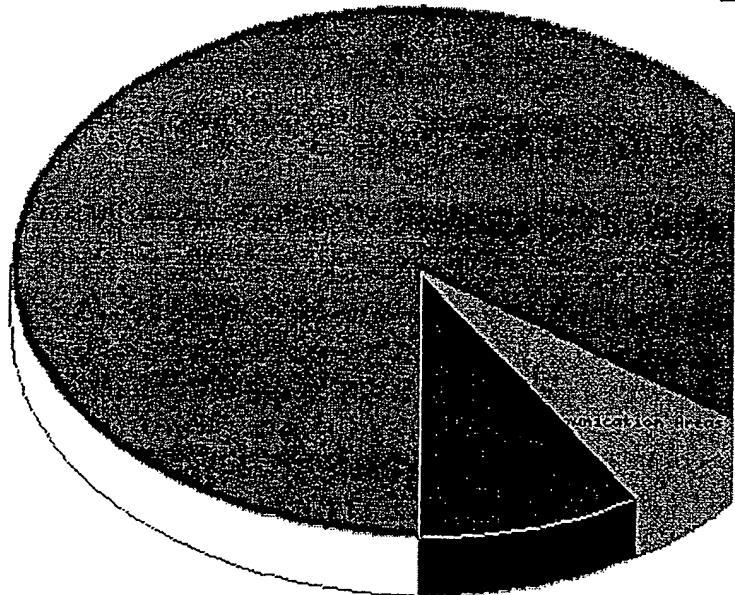
User Accesses per Hour of the Day - 2306

User Accesses per Day of the Week - 2308

Total Accesses by User - 2310

Total Number of Accesses per Area

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %



Number of Accesses over Time

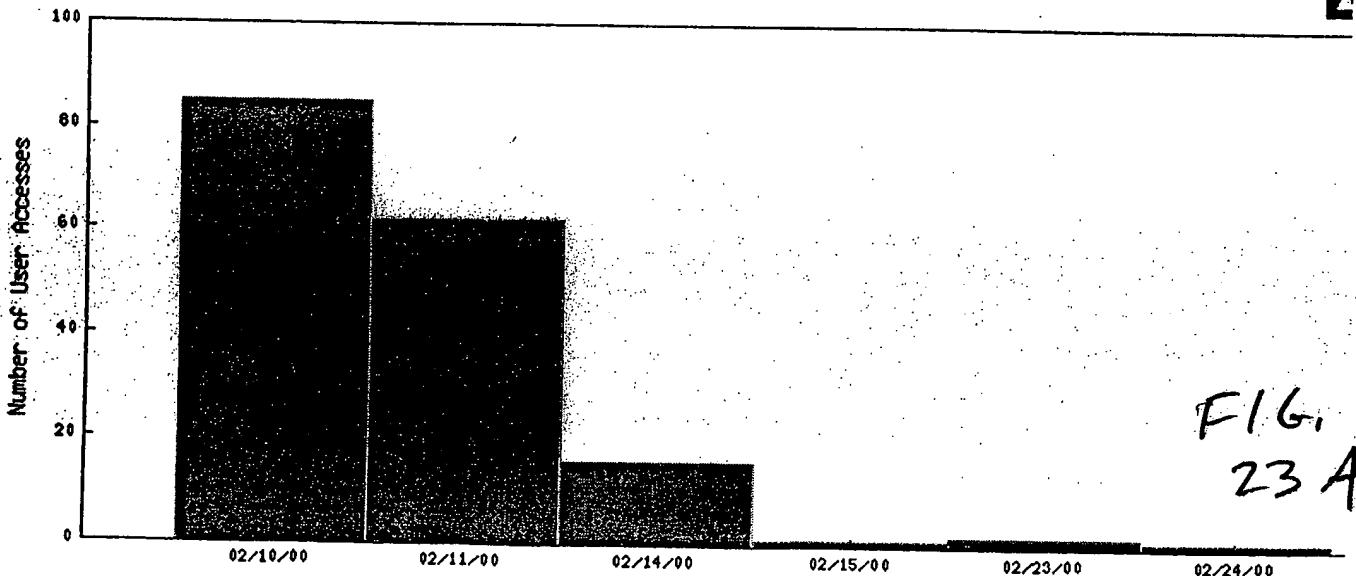
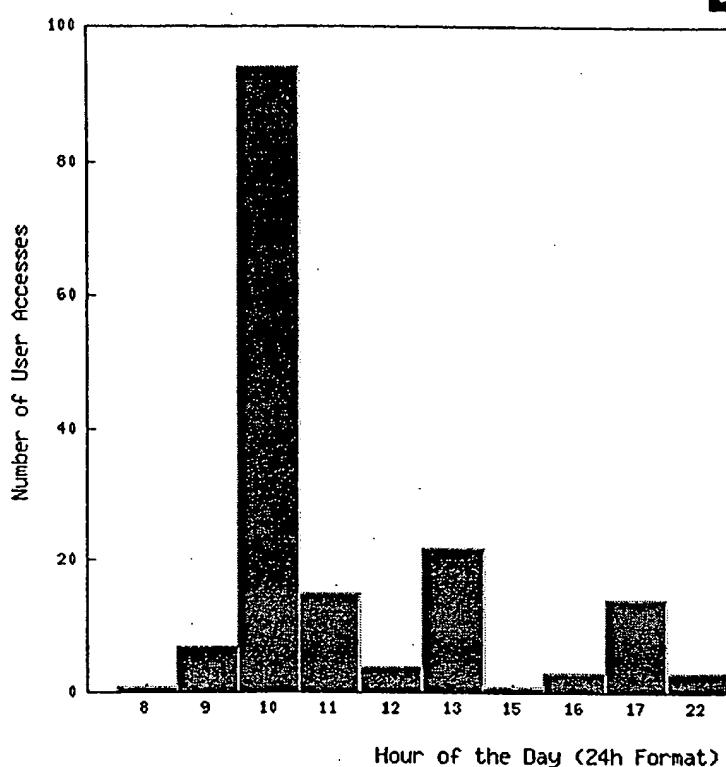


FIG.
23 A

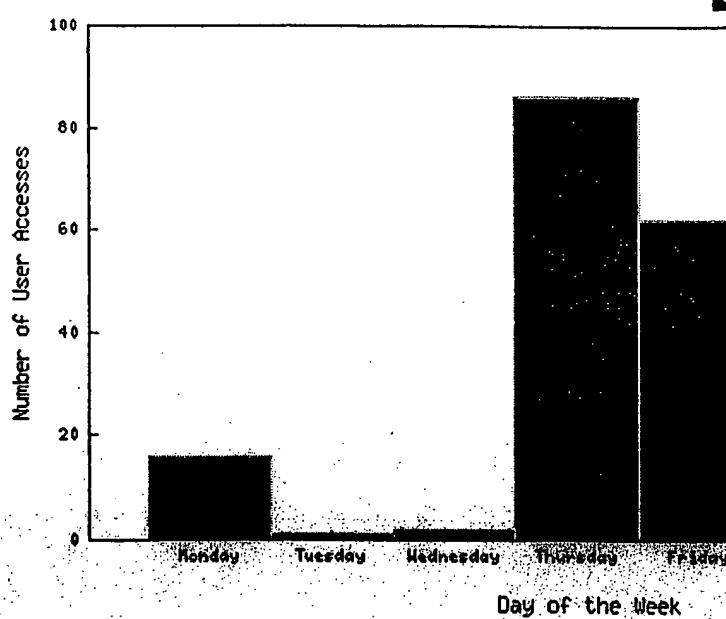
User Accesses by Hour of the Day *-2306*

Hour of The Day	Hits	Percent
8	1	0.59 %
9	7	4.19 %
10	94	56.2 %
11	15	8.98 %
12	4	2.39 %
13	22	13.1 %
15	1	0.59 %
16	3	1.79 %
17	14	8.38 %
22	3	1.79 %
23	3	1.79 %
Total	167	100 %



User Accesses by Day of the Week *-2308*

Day of The Week	Hits	Percent
Monday	16	9.58 %
Tuesday	1	0.59 %
Wednesday	2	1.19 %
Thursday	86	51.4 %
Friday	62	37.1 %
Total	167	100 %



2300

*FIG.
23B*

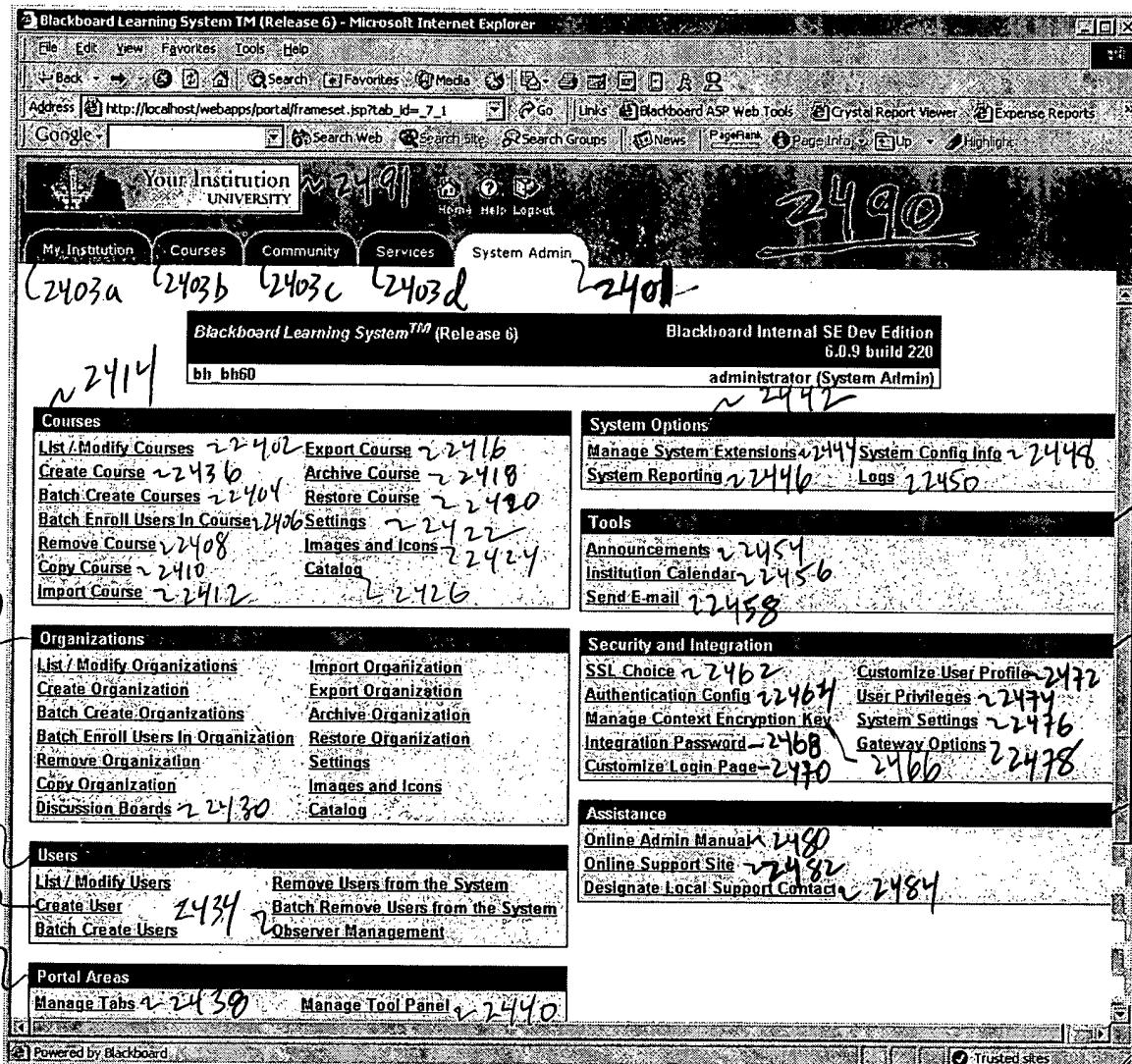


FIG. 24

2500

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Stop Refresh Home Search Favorites Options Mail Print Help

Address: http://georgetown1/blackout_v30/bb_admin/frames/frame_enterprise_community.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources

COMMUNITY SEARCH

Search the Web: Add

[advanced search](#)

OFF-CAMPUS COMMUNITIES

- The Arts**
Books, Writing, Art, Poetry
- College**
Greek, Academics, Nightlife
- Cultures**
Race Relations, Foreign Students
- Fun & Games**
Humor, Video Games, Gaming
- Health & Fitness**
Working Out, Nutrition
- Jobs**
Career, Internships, Work Study
- Money**
Finance, Investing, Insurance
- Movies**
Reviews, Celebs, Filmmaking
- Music**
Videos, News, Bands
- Personal & Hobbies**
The rest of it
- Politics**

Club List: Add

Clubs of which you are a Member:

- College Democrats**
Meet with other Democrats to fight the Republicans
- Sigma Alpha Mu**
Greek Life
- Football**
- Intramural Basketball**
Join a team every Tuesday night.
- Math Club**
If you are good at math join us. No Calculus required (joke).

Club Catalog:

- **Theater and the Arts**
- **Business & Investing**
- **Christianity**
- **Computers & Internet**
- **Cooking, Food & Wine**
- **Entertainment**
- **Health, Mind & Body**
- **History**
- **Home & Garden**
- **Literature & Fiction**
- **Oprah**
- **Parenting & Families**
- **Professional & Technical**

Discussion Boards: Add

- Housing**
Looking for a roommate, or have housing questions. Post here.
- Greek Life**
Greek, Academics, Nightlife
- Ride Board**
Find a ride home or offer a ride.
- Study Groups**
Humor, Video Games, Gaming
- College Sports**
Working Out, Nutrition
- Teacher's Lounge**
Where teachers can chat
- Home Help**
Need help from home
- Social Life**
Party hosted by Letts Hall at Quigley's Midtown.
- Politics**
Let's get those dam Independents.
- Intramurals**
Join or start your own Intramural sports team.

2500

FIG: 25

2602

OFF-CAMPUS SERVICES

- Financial Aid**
Department of Education Resources
- Financial Services**
- Career Center**
Online job banks and resources
- Health**
Find doctors and health facts on the web:
- Health & Fitness**

SEARCH THE WEB

Search the Web

Institution Services:

ACADEMIC LIFE

[Academic Calendar](#) | [Academic Units](#) | [Academic Program and Research Units](#) | [Courses, Classes, and Exams](#) | [Graduate School](#) | [Summer Session](#) | [Undergraduate Admissions](#)

COMPUTING SERVICES

[University Information Technologies](#) | [HelpDesk](#) | [Network Status](#) | [Updating Telephone Directory](#) | [News & Events](#) | [ResNet](#) | [Rights and Responsibilities](#) | [University Web, Gopher, and FTP sites](#) | [Training](#) | [Technology Connection](#)

THE UNIVERSITY CAMPUS

[Athletics](#) | [Calendar of Events](#) | [Campus Events](#) | [Campus Life](#) | [Campus Maps](#) | [Campus Store](#) | [University Police](#) | [University Facts](#) | [Dining](#) | [Environmental Health and Safety](#) | [Health and Wellness](#) | [Housing](#) | [News](#) | [Transportation Schedules](#) | [Weather](#)

STUDENT LIFE AND ACTIVITIES

[Calendar of Events](#) | [Career Opportunities](#) | [Student Organizations](#) | [University United Religious Work](#) | [Student Rideboard](#) | [Student Services](#) | [University Electronic Directory](#)

UNIVERSITY ADMINISTRATION

[Employment Opportunities](#) | [Academic and Administrative Offices](#) | [Human Resources](#) | [Alumni Affairs and Development](#) | [Division of Financial Affairs](#) | [Project 2000](#) | [Office of the Senior Vice President and Chief Financial Officer](#) | [Office for Purchasing Services](#) | [Transportation and Mail Services](#) | [University Administration](#) | [University Assemblies](#) | [University Policies and Procedures](#)

SURROUNDING COMMUNITY

[Dining and Entertainment](#) | [Transportation Schedules](#)

2600
F1G.26

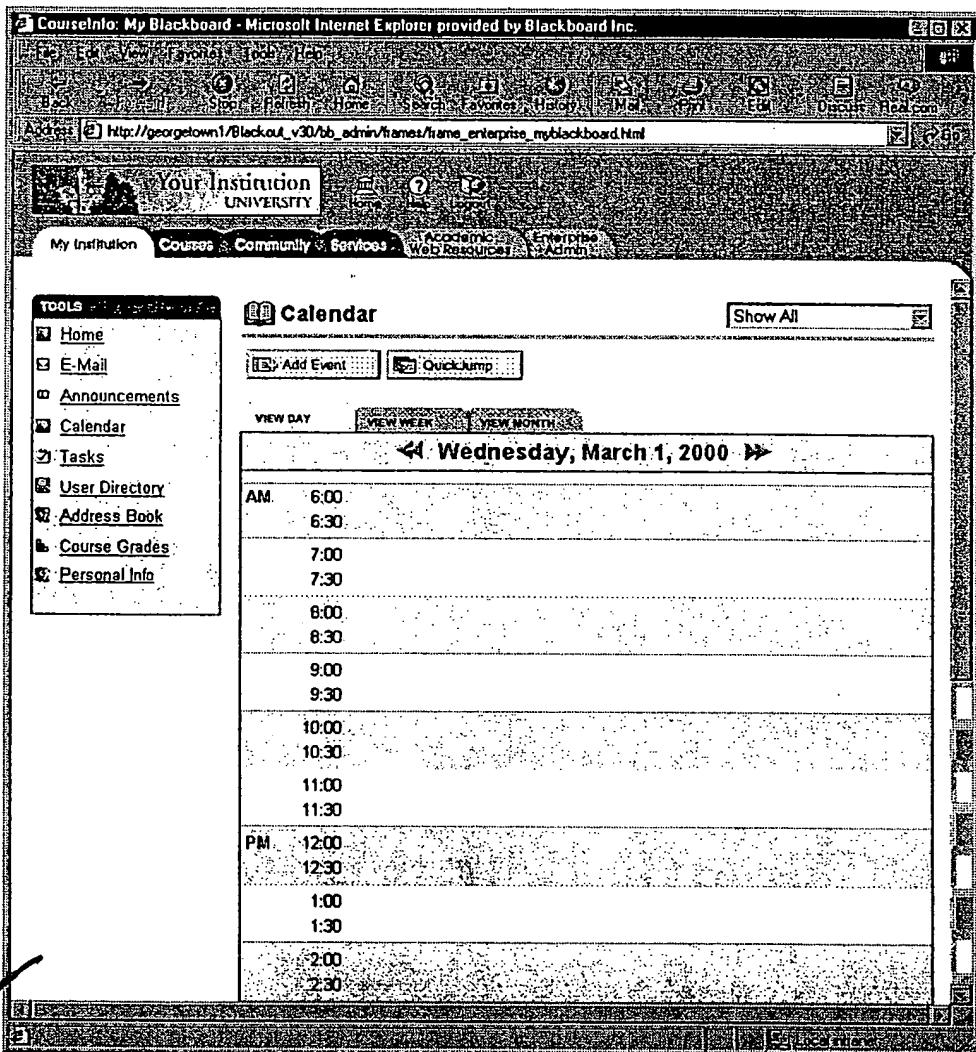


FIG. 27

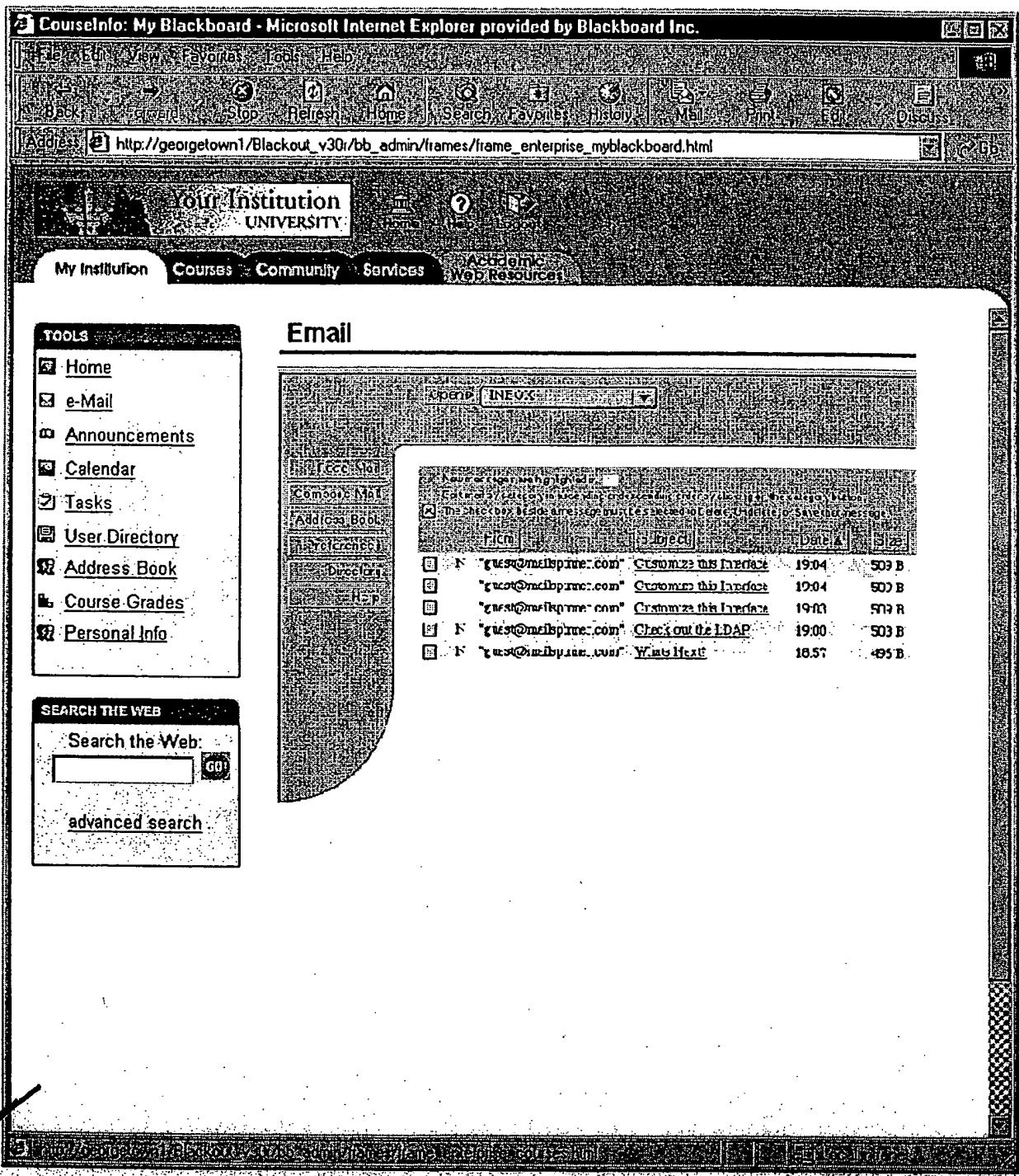


FIG. 28

2900

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

http://blockout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

My Institution UNIVERSITY

My institution Courses Community Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL > CREATE NEW COURSE

Create A New Course

1 Course Information

Course Name:

Course ID:

Description:

2 Course Design

Button Type: Pattern Plain

Button Shape: Rectangular Rounded Ends Rounded Corners

Button Style: Simple Block Lace Blue Brick Blue Concrete Blue Coral Blue Lace

3 Course Options

Select Type: Subject Area: SELECT A SUBJECT AREA

Discipline: General

Guest Access: Guests are allowed to visit this course. Guests are not allowed to visit this course.

4 Course Cartridge

Please enter your Course Cartridge Access Key:

If you do not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor: Instructor ID: Create New Instructor

5 Submit

Click "Submit" to finish. Click "Cancel" to end this process.

2900

FIG. 29

2900

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

http://blockout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

My Institution UNIVERSITY

My institution Courses Community Services Academic Web Resources Enterprise Admin

Guest Access: Guests are allowed to visit this course. Guests are not allowed to visit this course.

Available: Yes No

Select Course Catalog Category: Uncategorized

Course Cartridge: (optional) Please enter your Course Cartridge Access Key:
If you do not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor: Instructor ID: Create New Instructor

Submit

Click "Submit" to finish. Click "Cancel" to end this process.

2900

3000

FIG.
30A

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

Address: http://blockout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

My Institution Courses Community Services Academic Admin Resources Enterprise Admin

gender: Male Female

Birthday: January

Education: Undergraduate Student

Company:

Department:

Job Title:

Address:

Address: (cont.)

City:

State / Province:

Zip / Postal Code:

Country:

Web Site:

Home Phone:

Work Phone:

System Status: Critical Message Queue: Error Log: Help: Home: Logout: Back: Forward: Stop: Refresh: Print: Find: Search: Home: Logout: Back: Forward: Stop: Refresh: Print: Find: Search:

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

http://blockout.blackboard.com/bb_admin/themes/frame_enterprise_enterpriseadmin.html

Our Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Work Phone: _____

Work Fax: _____

Mobile Phone: _____

4 Role and Availability

Primary Institution Role: Student

Administrative User Role:
If you would like user to have an administrative role, please select the role:
(Note: Administrative Access grants the user access to the System Administration Control Panel)

None System Admin System Support
 Course Creator Account Administrator

5 Submit

* - Required Field for Form Entry

Click "Submit" to finish. Click "Cancel" to end this process.

3000

F16-30B

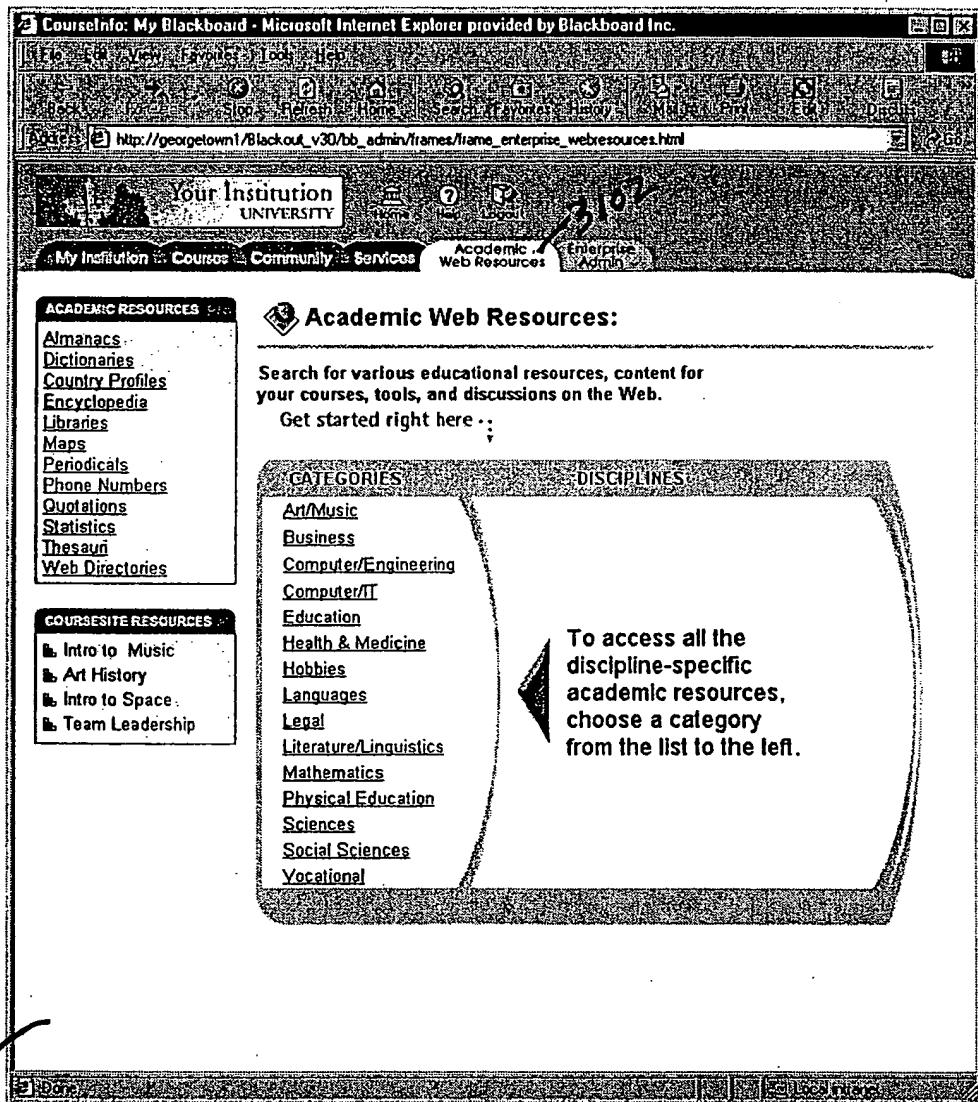


FIG. 31

3200

CoursesInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Profiles Help

Address http://georgetown1/Blackout_v30/bb_admin/frames/frame_enterprise_webresources.htm

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Social Sciences and Social Study : History

News

Vietnam Starts Marking 1975 Battle Victories
Mar 10 - The Washington Times
HANOI - Vietnamese started celebrating yesterday the 25th anniversary of the victory of communist troops in the key town of Ban Me Thuot - a battle that marked the beginning of the end of the Vietnam War. [FULL STORY](#)

U.S. must support democracy - not just the military - in Colombia
Mar 10 - The Washington Times
The March 7 article "Homes, land abandoned as civil war continues" makes reference to how Colombia's civil war between leftist guerrillas and government security and paramilitary groups has expanded to the point where noncombatants are being affected. [FULL STORY](#)

F16s needed
Mar 10 - The Dominion
The RNZAF needs the most modern aircraft available to maintain the skills necessary for its attack and strike capability, not only for defence but to assist our close allies. [FULL STORY](#)

Reunion plain sailing
Mar 10 - Waikato Times
A perfect landing started a perfect reunion when World War II pilot Dusty Miller watched an immaculately rebuilt 1940 Hawker Hurricane touch down at Wanaka Airport yesterday. [FULL STORY](#)

Poor site testing 'threatens heritage'
Mar 10 - The Irish Times
Archaeological treasures in the Republic are at risk of being destroyed because of inadequate site-testing by archaeologists, according to a report published yesterday.

Research Center

Periodical Search:

Boolean Search
 Natural Language Search

Search all articles
 Search only this discipline

Browse by Topic:

[Early National Period](#)
[Great Depression](#)
[Jacksonian America](#)
[Labor Movement](#)
[The Cold War](#)
[Vietnam War](#)
[World War I](#)
[World War II](#)

Web Search:

Communities

Social Sciences and Social Study for Students

Discussion Boards
Learn about my civilization

FIG. 32

Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address set.jsp?tab=course&url=/bin/common/course.pl?course_id=2 Go Back Forward Stop Home Favorites Media Links Backward Forward Stop Home Favorites Media Links

Backward Forward Stop Home Favorites Media Links

Google Search Web Search Site Search Groups News PageRank Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES > PATENT > COMMUNICATIONS > COLLABORATION

Collaboration Sessions

Filter: Show All Search by: Session Name Start Date End Date (MM-DD-YY)

Search

Displaying sessions 1-2 of 2

Session Name	Tool	Start Date	End Date
Lecture Hall	Virtual Classroom	✓ 3/3/02	
Office Hours	Lightweight Chat	✓ 3/3/04	

2 Sessions Displaying sessions 1-2 OK

Powered by Blackboard

✓ 3300

Figure 33A.

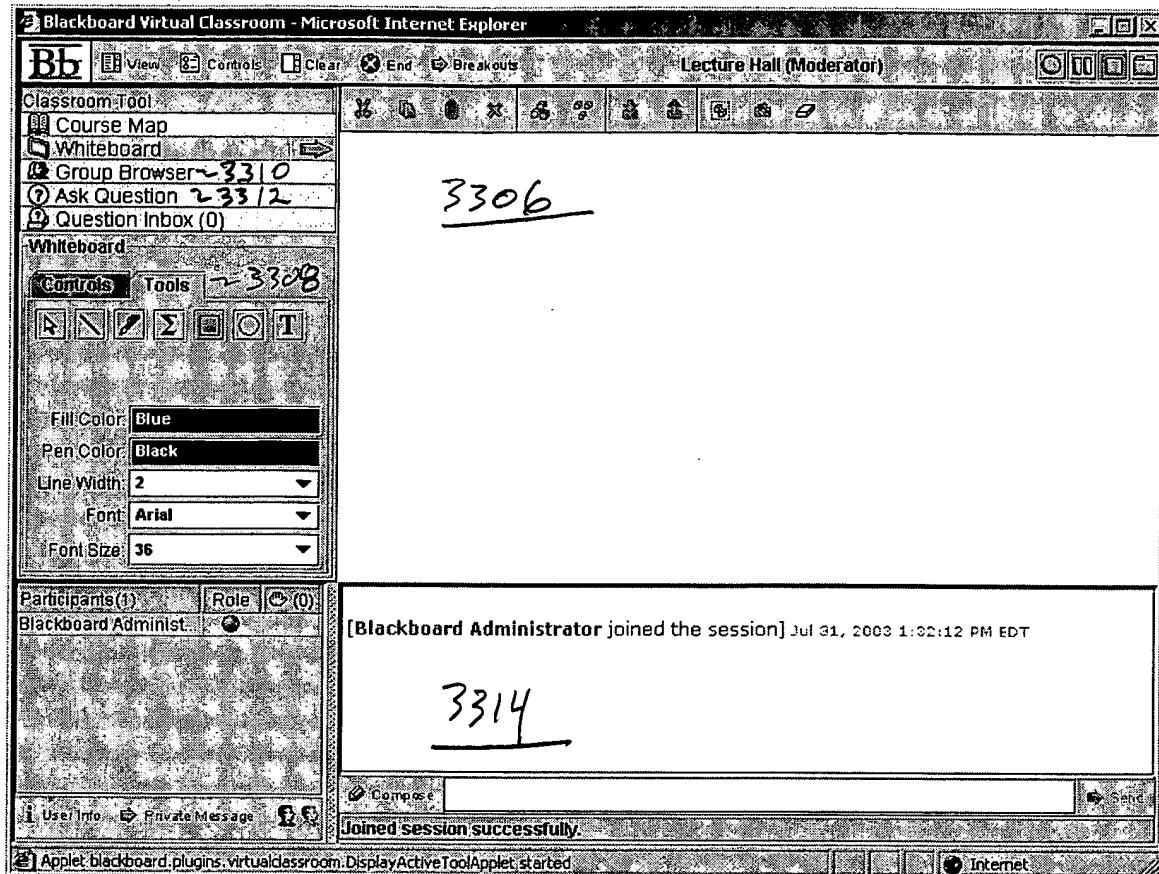
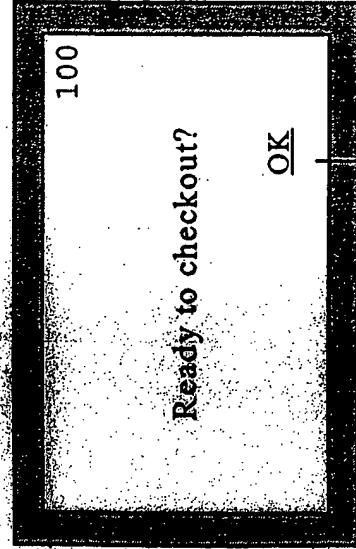


Figure 33B

3450

Linking to the E-Commerce Server

Myserver.blackboard.com



The link to butter passes the following information:

name: Name of the purchaser

address_1

address_2

city

state

zip

country

price: price in USD that the user is being asked to pay

order-id: null if butter should generate an order number (default)

order-desc: Text description of what the user is buying.

url: the location the referring server that butter should return the user to after the payment process is complete

block 120

hyperlink

Butter blackboard.com
Linux Apache, Red C&I

Figure

34

First E-Commerce Screen Display

Butter.blackboard.com

The screenshot shows a payment interface for Butter.blackboard.com. At the top, there's a banner with the text "Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)". Below this, the URL "Butter.blackboard.com" is visible along with links for "About Blackboard.com", "Help & Support", and "Home". A large "BB" logo is prominently displayed.

In the center, there's a "Payment Information" section with fields for "Credit Card Number", "Expiry Date", and "CVV2/CVC2". To the left of this section, the number "3502" is handwritten. Below the payment form, there's a "Purchase Summary" table:

Item	Description	Quantity	Unit Price	Total
Blackboard.com	Blackboard.com	1	\$100.00	\$100.00
Subtotal				\$100.00
Discount	35%	1	\$35.00	\$35.00
Tax				\$0.00
Grand Total				\$65.00

Below the table, there's a note: "Please be patient, it may take up to one minute to process your credit card".

Whatever user info is available is populated from the data passed from the previous page.

The unique order number displayed is dynamically generated by the server.

The Chosen services and price displayed are passed in from the previous screen.

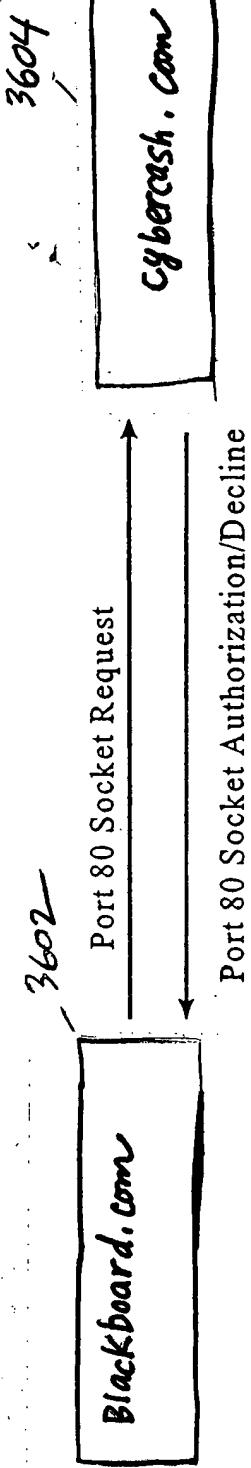
The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

Figure

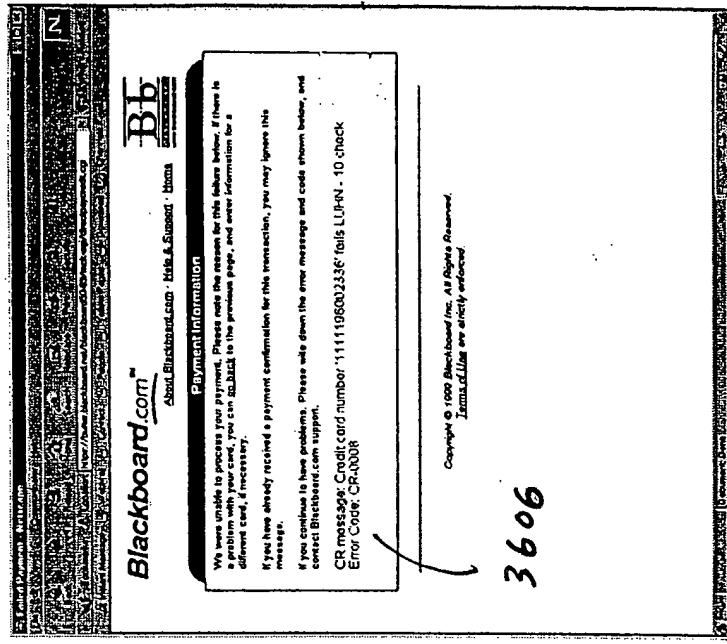
35

3500

Authorization Process



- The authorization process takes a minute or so.
- If the card is rejected, a page like the one at right is displayed.
- If the card is accepted, the payment goes through, and the page on the next slide is shown.



3600

3606

Figure
36

Second E-Commerce Screen Display

Butter.blackboard.com

Payment Information Retrieval

Blackboard.com - 3702

BB

Payment Information

Information Below, you will find a purchase confirmation number for your transaction. You may copy this down for your records. When you are done, click "Logout" to return to the Blackboard.com home page.

Confirmation Details

Registration Number: 24324348— (\$1.00)

Registration Date: 04/20/02

Registration Owner: blackdoor (partial number shown for security)

1010

YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED
CONTINUE TO CHECKOUT

Copyright © 2000 Blackboard Inc. All Rights Reserved.
Unauthorized copying or distribution are strictly prohibited.

Payment is authorized and queued at Cybercash,
Inc for processing.

The payment will go through and appear in
Blackboard's Cybercash account within 12
hours.

There is no way that the user can back out at this
point without Blackboard issuing a manual
refund.

No services are provided yet. The user must
follow the link at the bottom of the page, or he
will receive nothing for his money.

All links on this page are disabled except the one
that says "YOU MUST CLICK HERE". This
prevents users from failing to get their orders
filled.

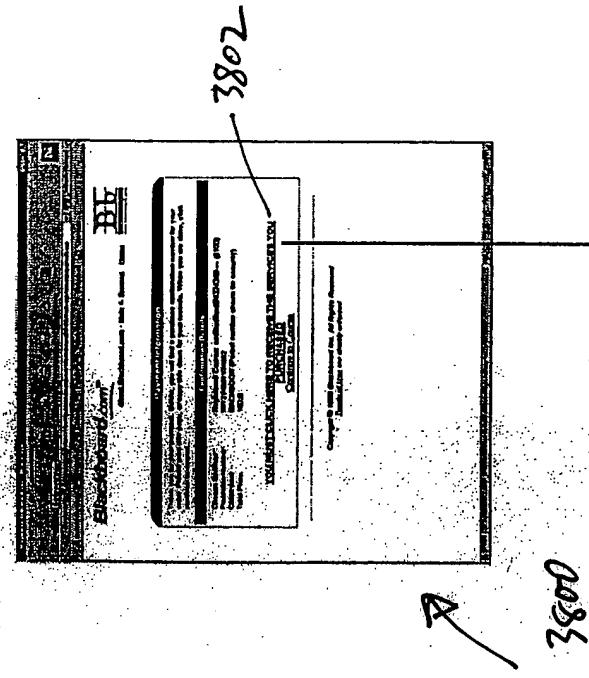
A authorization code is calculated by the script as
a secure hash of the purchase price, the order id,
and a secret number.

Figure

37

Returning to the Originating Server

Butter.blackboard.com



- The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.
- The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.



Figure

38

Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Search Favorites Media Links Customize Links Windows Media

Address ?tab=courses&url=/bin/common/course.pl?course_id=2_1 Go Links Customize Links Windows Media

Google Search Web Search Browsers Search Groups PageRank Page Info Up Bright

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES > TEST > CONTROL PANEL > COURSE DOCUMENTS > ADD CONTENT

Add Content

1 Content Information

Name: Course Documents 23910
or specify your own name: 23912

Choose Color of Name: 23914

Text

This is an equation placeholder: <00
[0] "SummationExample" | 1] 00>

3920

23916

3902 3904 390b

Smart Text Plain Text HTML

2 Content Attachments

Powered by Blackboard Trusted Sites

3900

Figure 39
Sample Text Editor

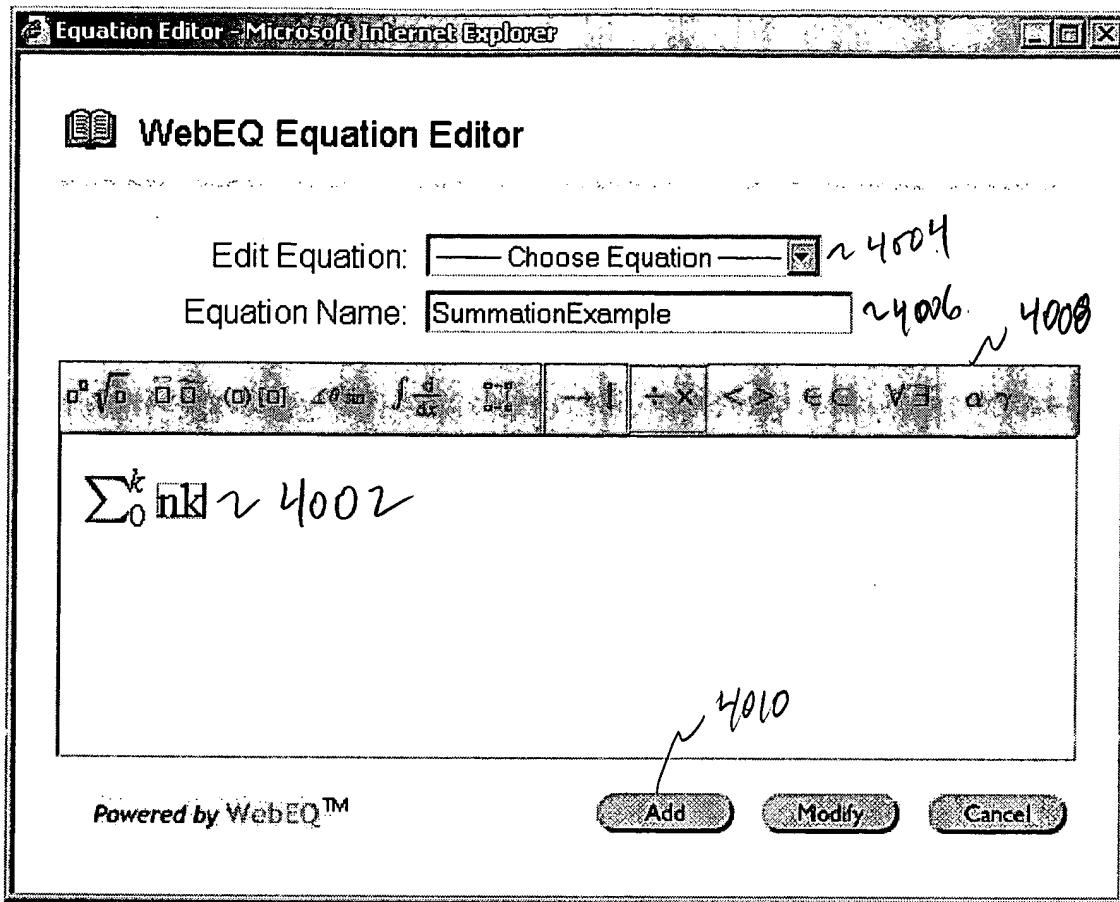


Figure 40
Sample Text Tool (integrated into Blackboard)

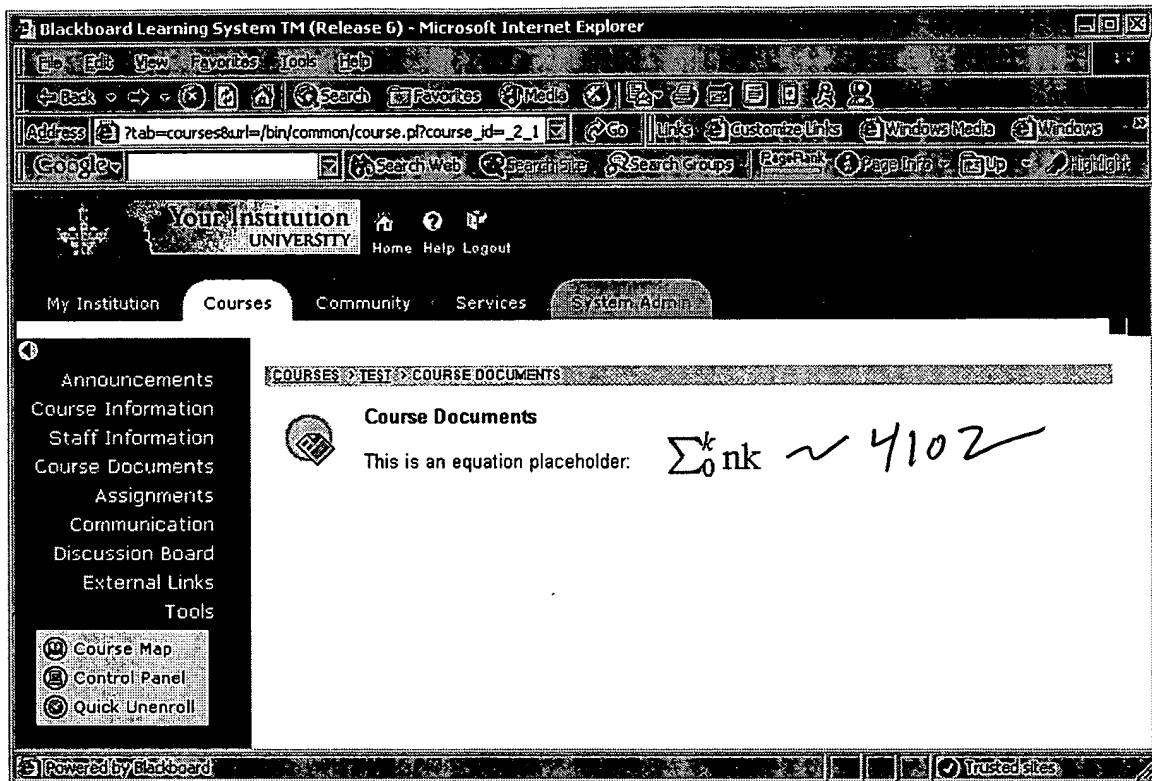


Figure 41
Rendered Data

Blackboard Learning System TM (Release 5) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go Links Blackboard ASP Web Tools Crystal Report Viewer

Address set.jsp?tab=course&url=/bin/common/course.pi?course_id=2 Go

Links Blackboard ASP Web Tools Crystal Report Viewer

Search Web Search Site Search Groups News CopyPrint Page Info Up Highlight

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

COURSES > PATENT > CONTROL PANEL > COURSE DOCUMENTS > ADD CONTENT

Add Content

1 Content Information

Name: Course Documents ~3910

or specify your own name: ~3912

Choose Color of Name: Red

Text:

This is a template. Here is a link to additional data. Here is a custom text object:
content_block(some_id, type-spec) 24202 ~3916

An equation placeholder: <00[0] "equation_0_1"[1]00>

Smart Text Plain Text HTML Preview 3902 ~3904 ~3906

2 Content Attachments

Files may be attached to the above information. Click the Browse button to select the file to attach from your computer. Also, specify a name of the link to this file.

File to Attach:

Powered by Blackboard Internet

4202 ~3904 ~3906 ~4200

Figure 42.

Presentation Data (main_data)
4302

<P>This is a template. Here is a @X@link ("link") @X@ to additional data. Here is a custom text object: <applet code="webeq.Main" archive="webeq.jar"><param name="eq" value="<mathml>...</mathml>"></applet>

Presentation Data (main_data)

template 4304

This is a template. Here is a @X@link ("link") @X@ to additional data. Here is a custom text object: @X@content_block (same_id, type-spec)@X@.

rawblock (same_id, typespec)

4306

<mathml>...</mathml>

FIG. 43

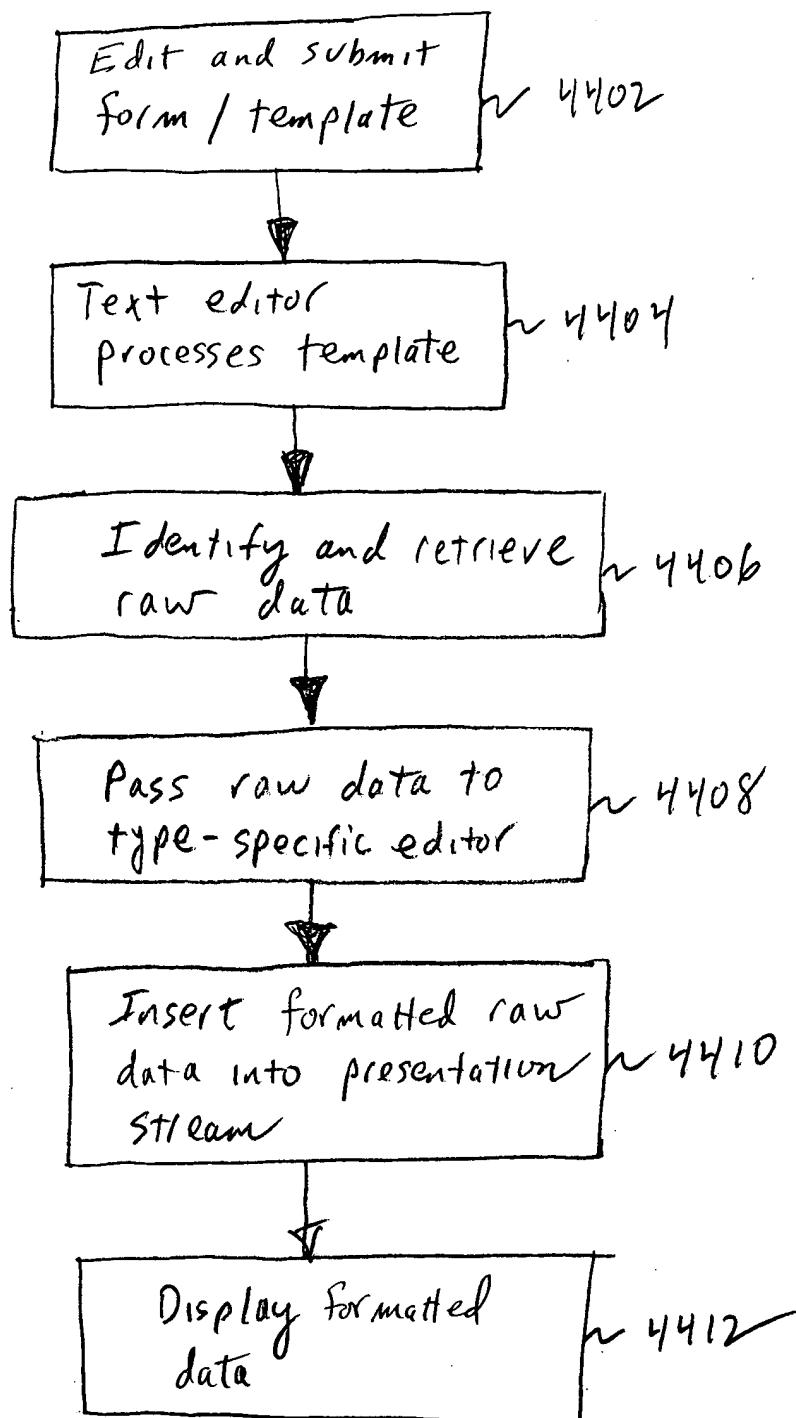


Fig. 44

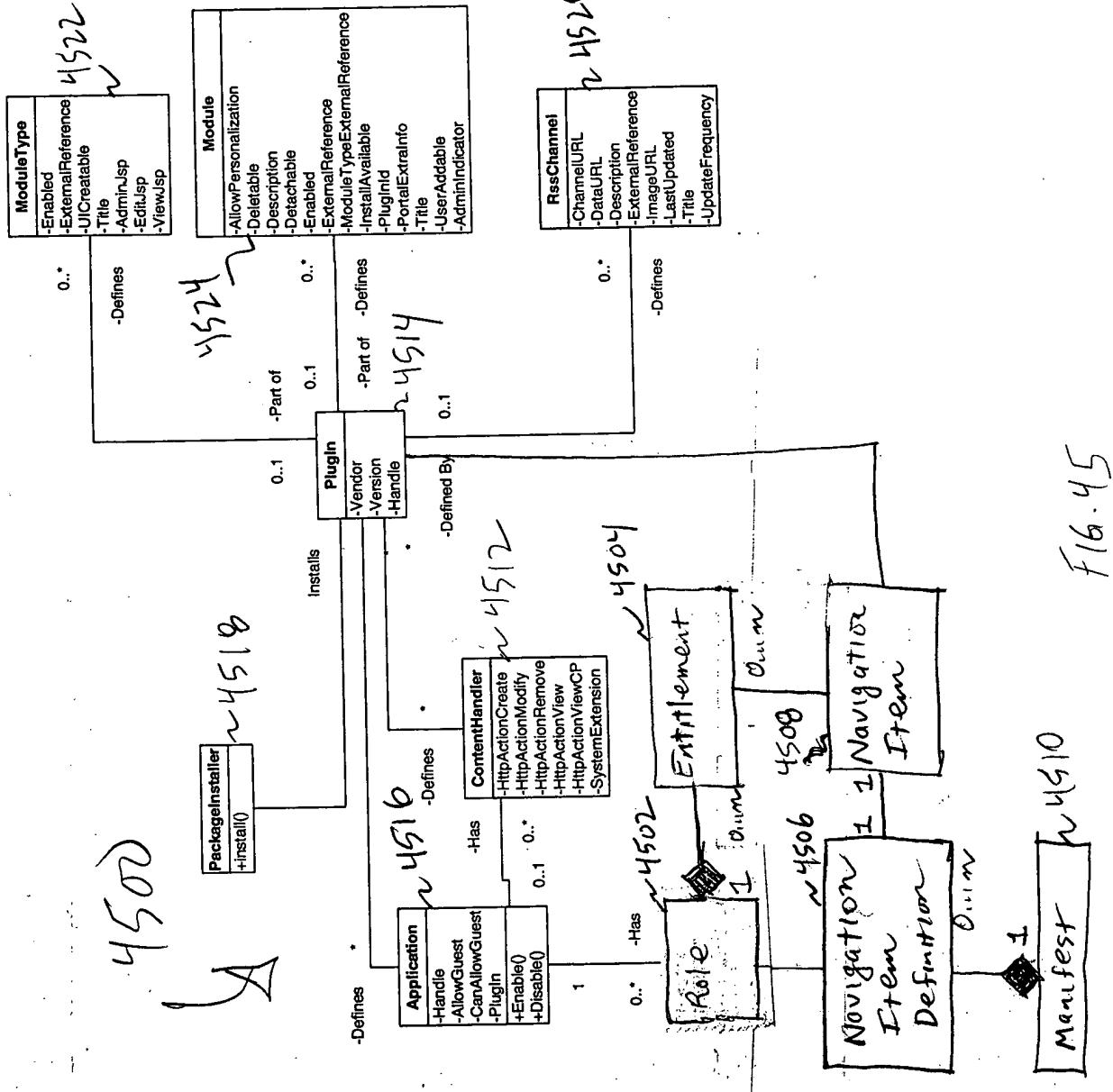
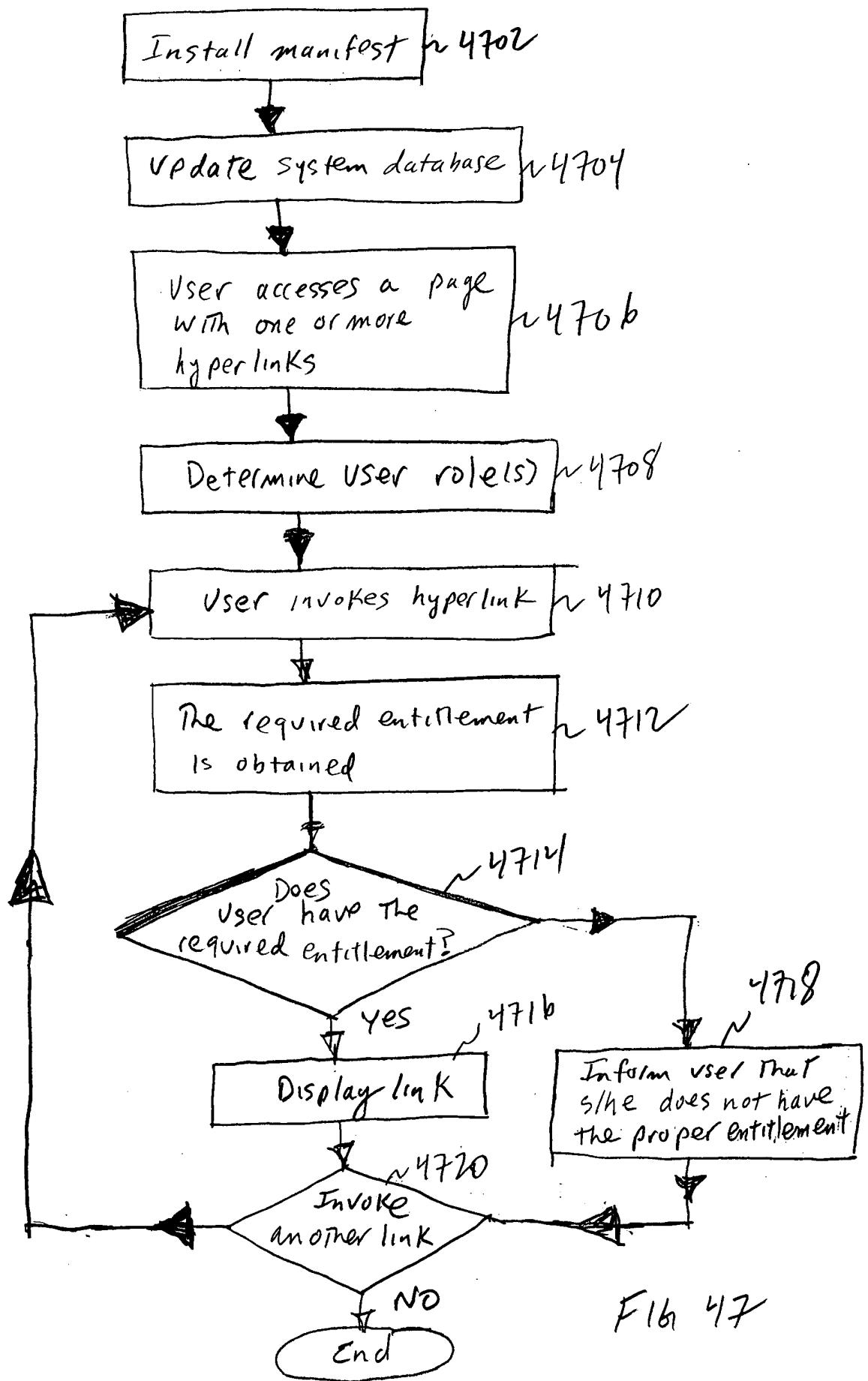


Fig. 46

User Name	Role(s)	Entitlement
Last	First M.I.	
Jones	Allan S.	A, I course, modify calendar, modify
Smith	Jane T.	C, T course, modify calendar, modify
:	:	
Lee	Alex Y.	O course, view



Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address: http://localhost/webapps/portal/frameset.jsp?tab_id=7_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Google Search Web Search Site Search Groups News PageRank Page Info Up Find

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

ADMINISTRATION PANEL > MANAGE SYSTEM EXTENSIONS

Manage System Extensions

Install Extension Download Extension

Installed System Extensions

Name	Vendor	Version	Status	Action
Astrology	Astrology.com	1.0.1	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
CNNModules	CNN	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
GoogleModule	Google	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
HETemplateModules	Blackboard Inc.	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
Maps	Mapquest	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
New York Times	New York Times	1.0.2	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
Time	Time	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
Travel	Expedia	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
WeatherModule	Weather.com	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
Zap2ItModules	Zap2It	1.0.0	Available	<input type="checkbox"/> View Components <input type="button" value="Remove"/>
AOI WYSIWYG Editor	AOI Systems	2.5.8	Available	<input type="checkbox"/> View Components <input type="button" value="Properties"/> <input type="button" value="Remove"/>
Blackboard Course Creation Wizard	Blackboard Research and Development	1.0.1	Available	<input type="checkbox"/> View Components <input type="button" value="Properties"/> <input type="button" value="Remove"/>

OK

Powered by Blackboard Trusted sites

FIG. 48

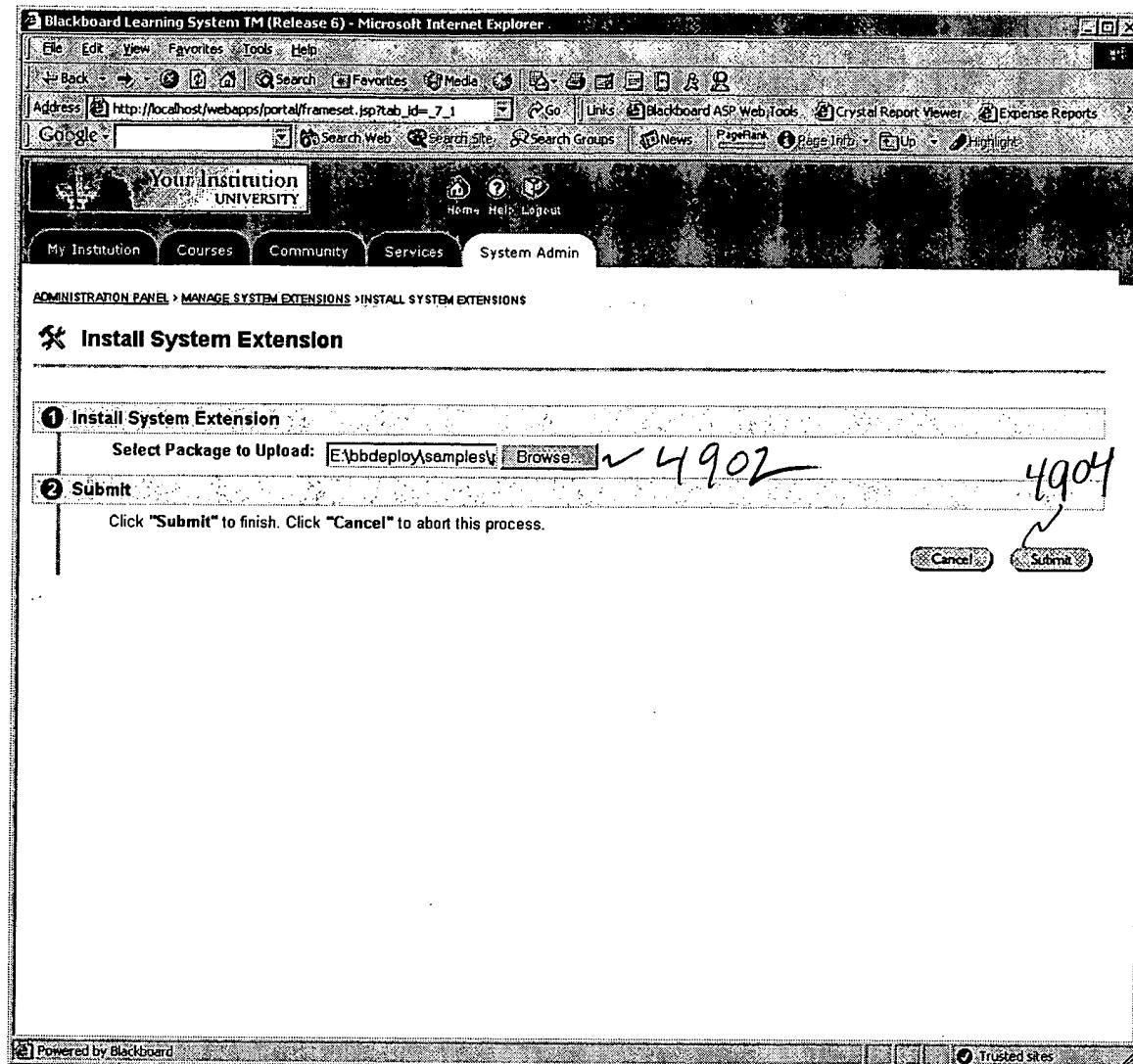


FIG. 49

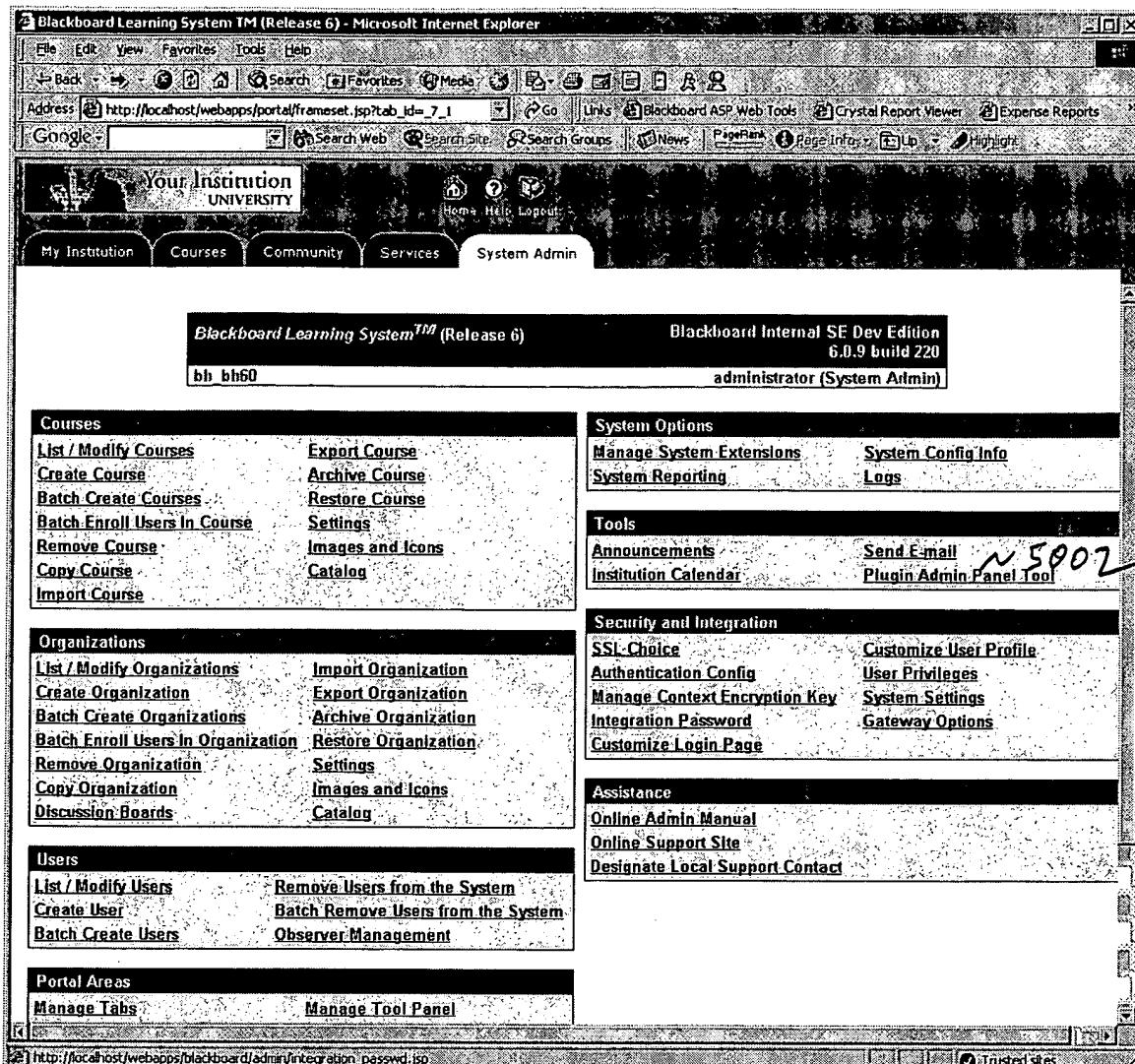


FIG. 50

R 5002

Blackboard Learning System TM (Release 6) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://localhost/webapps/portal/frameset.jsp?tab_id=7_1 Go Links Blackboard ASP Web Tools Crystal Report Viewer Expense Reports

Google Search Web Search Photo Search Groups News PageRank PageInfo Up Highlights

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services System Admin

ADMINISTRATION PANEL >MANAGE SYSTEM EXTENSIONS

Manage System Extensions

Install Extension Download Extension

Installed System Extensions

Name	Vendor	Version	Status	Action
Astrology	Astrology.com	1.0.1	Available	View Components Remove
CNNModules	CNN	1.0.0	Available	View Components Remove
GoogleModule	Google	1.0.0	Available	View Components Remove
HETemplateModules	Blackboard Inc.	1.0.0	Available	View Components Remove
Maps	Mapquest	1.0.0	Available	View Components Remove
New York Times	New York Times	1.0.2	Available	View Components Remove
Time	Time	1.0.0	Available	View Components Remove
Travel	Expedia	1.0.0	Available	View Components Remove
WeatherModule	Weather.com	1.0.0	Available	View Components Remove
Zap2ItModules	Zap2It	1.0.0	Available	View Components Remove
AOI WYSIWYG Editor	AOI Systems	2.5.8	Available	View Components Properties Remove
Blackboard Course Creation Wizard	Blackboard Research and Development	1.0.1	Available	View Components Properties Remove
Sample Plugin	Sample Plugin Vendor	1.0.0	Inactive	View Components Remove

OK

25102

Powered by Blackboard Trusted sites

FIG. 51